

4 X 36 in BELT SAND

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MSDS

**Common Name:** ALUMINA/ZIRCONIA COATED ABRASIVES, NZCOAT001 OUTBOUND**Manufacturer:** SAINT-GOBAIN ABRASIVES**MSDS Revision Date:** 2/22/2010

**Grainger Item Number(s):** 1EDV2, 1EDV3, 1EDV4, 1EDV5, 1EDV6, 1EDV7, 1EDV8, 1EDV9, 1LZL5, 1PR21, 1PR22, 1PR23, 1PR25, 1PR26, 1PR27, 1PR28, 1PR29, 1PR30, 1PR31, 1PR33, 1PR34, 1PR37, 1PR38, 1PR39, 1PR40, 1PR42, 1PR43, 1PR80, 1PR81, 1PR82, 1PT59, 1PT60, 1PT61, 1PT62, 1YEG3, 1YEG4, 1YEG5, 1YEG6, 1YEG7, 1YEH7, 1YEH8, 1YEK9, 1YEL1, 1YEL2, 1YEL3, 1YEL4, 1YEL5, 1YEL6, 1YEL7, 1YEL8, 1YEL9, 1YEN1, 1YEN2, 1YER1, 1YEU6, 1YEU7, 1YEU8, 1YEU9, 1YFD8, 1YFD9, 1YFE1, 1YFE2, 1YFE3, 1YFE4, 1YFE5, 1YFE6, 1YFE7, 1YFE8, 1YFE9, 1YFF1, 1YFF2, 1YFF3, 1YFF4, 1YFF5, 1YFF6, 1YFF7, 1YFF8, 1YFF9, 1YFG1, 1YFG2, 1YFG3, 1YFG4, 1YFK6, 1YFK7, 1YFK8, 1YFK9, 1YFL1, 1YFL2, 2D573, 2D574, 2D575, 2D576, 2D577, 2D578, 2D579, 2D580, 2D583, 2D584, 2D585, 2D586, 2D587, 2D588, 2D589, 2D590, 2D598, 2D599, 2D600, 2D601, 2D602, 2D603, 2D604, 2D605, 2D606, 2D607, 2D608, 2D609, 2D610, 2D611, 2D613, 2D614, 2D615, 2D636, 2D637, 2D638, 2D639, 2D640, 2D641, 2D642, 2D643, 2D644, 2D645, 2D647, 2D648, 2D649, 2D650, 2D651, 2D652, 2D653, 2D654, 2D655, 2D656, 3PY86, 3PY87, 3PY88, 3PY98, 3PY99, 3RA10, 3RA11, 3RA12, 3RA13, 3RA14, 3RA24, 3RA25, 3RA26, 3RA28, 3RA29, 3RA30, 3RA31, 3RA32, 3RA33, 3RA34, 3RA35, 3RA36, 3RA37, 3RA38, 3RA39, 3RA40, 3RA41, 3RA42, 3RA43, 3RA44, 3RA45, 3RA46, 3RA47, 3RA48, 3RU62, 3RU63, 3RU64, 3RU65, 3RU66, 3RU68, 3RU69, 3RU70, 3RU71, 3RU72, 3RU74, 3RU77, 3RU78, 3RU80, 3RU81, 3RU82, 3RU83, 3RU84, 3RU86, 3RU87, 3RU89, 3RU90, 3RU92, 3RU93, 3RU94, 3RU95, 3RU96, 3RU98, 3RY11, 3RY14, 3RY15, 3RY17, 3RY19, 3RY20, 3RY21, 3RY22, 3RY23, 3RY24, 3RY25, 3RY26, 3RY27, 3RY28, 3RY29, 3RY30, 3RY31, 3RY32, 3UN25, 3UN44, 3UN45, 3VN18, 3VN22, 3VN23, 3VN24, 3VN25, 3VN28, 3VN29, 3VN31, 3VN32, 3VN33, 3VN34, 3VN35, 3VN37, 3VN38, 3VN39, 3VN40, 3VN41, 3VN42, 3VN45, 3VN46, 3VN48, 3VN50, 3VN51, 3VN52, 3VN53, 3VN54, 3VN55, 3VN56, 3VN57, 3VN58, 3VN59, 3VN60, 3VN61, 3VN62, 3VN63, 3VN64, 3VN65, 3VN66, 3VN68, 3VN69, 3VN75, 3VN78, 3VN79, 3VN81, 3VN82, 3VN83, 3VN84, 3VW98, 3VW99, 3VX04, 3VX11, 3VX15, 3VX19, 3VX42, 3VX51, 3VX65, 3VX68, 3VX69, 3VX70, 3VX71, 3VX72, 3VX73, 3VX74, 3VX75, 3VX76, 3VX78, 3VX79, 3VX82, 3VX83, 3VX84, 3VX86, 3VX88, 3VX89, 3VX94, 3VX95, 3VX98, 3VZ01, 3VZ02, 3VZ03, 3VZ04, 3VZ06, 3VZ09, 3VZ14, 3VZ16, 3VZ18, 3VZ19, 3VZ20, 3VZ26, 3VZ41, 3VZ43, 3VZ44, 3VZ45, 3VZ49, 3VZ51, 3VZ53, 3VZ54, 3VZ57, 3VZ58, 3VZ59, 3VZ60, 3VZ61, 3VZ62, 3VZ64, 3VZ65, 3VZ67, 3VZ68, 3VZ74, 3VZ77, 3VZ79, 3WU13, 3XF18, 3XF19, 3XF20, 3XF21, 3XF22, 3XF23, 3XF24, 3XF25, 3XF26, 3XF27, 3XF28, 3XF29, 3XF30, 3XF31, 3XF32, 3XF33, 3XF34, 3XF35, 3XF36, 3XF37, 3XF38, 3XF39, 3XF40, 3XF41, 3XF42, 3XF43, 3XF44, 3XF45, 3XF46, 3XF81, 3XF82, 3XF83, 3XF84, 3XF85, 3XF86, 3XF87, 3XF88, 3XF89, 3XF90, 3XF91, 3XF92, 4F877, 4F878, 4F879, 4F916, 4F917, 4F918, 4LZZ8, 4LZZ9, 4MAA1, 4MAC2, 4RA82, 4RA83, 4RA84, 4RA85, 4RA86, 4RA87, 4RA88, 4RA89, 4RA90, 4RB13, 4RB14, 4RB15, 4RB16, 4RB17, 4RB18, 5CJF5, 5GC87, 5GC88, 5GC89, 5GC90, 5GC91, 6MR93, 6MR95, 6MR96, 6MR97, 6MR98, 6R867, 6R869, 6R875, 6R877, 6R883, 6R885, 6R887, 6R889, 6R891, 6R893, 6R895, 6R901, 6R903, 6R905, 6R907, 6R909, 6R911, 6R913, 6R915, 6R919, 6R921, 6R923, 6R931, 6R933, 6R935, 6R937, 6R941, 6R943, 6R945, 6RC05, 6RC06, 6RC07, 6RC24, 6RC25, 6RC26, 6RC27, 6RC28, 6RC30, 6RC32, 6RC52, 6RC53, 6RF80, 6RF81, 6RF82, 6RF83, 6RF84, 6RF85, 6RG06, 6RG08, 6RG12, 6RG13, 6RJ70, 6RJ75, 6RJ76, 6RJ80, 6RK50, 6RK51, 6RK52, 6RK53, 6RK54, 6RK55, 6RK56, 6RK57, 6RK58, 6RK62, 6RK63, 6RK64, 6RK65, 6RK67, 6RK70, 6RK71, 6RK72, 6RK73, 6RK74, 6RK75, 6RK76, 6RL38, 6RL39, 6RL40, 6RL41, 6RL42, 6RL43, 6RL44, 6RL45, 6RL46, 6RL47, 6RL48, 6RL50, 6RL51, 6RL53, 6RM23, 6RM27, 6RM32, 6RM42, 6RM43, 9V572, 9VMR6, 9VMR7

**Manufacturer Model Number(s):****MSDS Table of Contents**

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NORTON

MATERIAL SAFETY DATA SHEET

PART#: 78072728617

MSDS NO.: NZCOAT001 OUTBOUND

ALUMINA/ZIRCONIA COATED ABRASIVES

NORTON USA FORMAT MSDS: NZCOAT001

DATE PRINTED: APR 01, 2010

## SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

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PRODUCT NAME: ALUMINA/ZIRCONIA COATED ABRASIVES

TRADE NAME:

NORZON - CAP CODES: A8XX, E8XX, F8XX, H8XX, R8XX, SY6XX

MANUFACTURER (4):

SAINT-GOBAIN ABRASIVES, INC.

ONE NEW BOND STREET

WORCESTER, MA 01615-0008

(508) 795-5000

REVISION DATE: 2/22/2010

MSDS PRINT FORMAT: NUSA

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

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| SUBSTANCE DESCRIPTION       | PERCENT            | CAS#      |
|-----------------------------|--------------------|-----------|
| ALUMINUM OXIDE, NON-FIBROUS | 15.000 - 25.000    | 1344-28-1 |
| CLOTH OR PAPER BACKING      | 45.000 - 55.000    | N/A       |
| BINDER SYSTEM               | ** 10.000 - 30.000 | N/A       |
| INORGANIC FLUORIDES         | ** 1.000 - 5.000   | NA        |
| ZIRCONIUM                   | 20.000 - 30.000    | 7440-67-7 |

\*\* SUBSTANCE IS A COMPOUND AND/OR MIXTURE

OTHER:

## SECTION 3. HAZARDS IDENTIFICATION

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**INHALATION ACUTE EXPOSURE EFFECTS:**

DUST MAY BE SLIGHTLY IRRITATING TO EYES AND RESPIRATORY TRACT AT HIGH CONCENTRATIONS.

**INHALATION CHRONIC EXPOSURE EFFECTS:**

CHRONIC: MAY AFFECT BREATHING CAPACITY.

FOR PRODUCTS CONTAINING PHENOL/FORMALDEHYDE RESIN, DUST GENERATED FROM INTENDED USE MAY CONTAIN TRACE AMOUNTS OF PHENOL AND FORMALDEHYDE WHICH UNDER EXCESSIVE EXPOSURE MAY CAUSE SKIN SENSITIZATION AND AIRWAY OBSTRUCTION.

**FOR PRODUCTS CONTAINING INORGANIC FLUORIDES:**

EXCESSIVE EXPOSURE TO INORGANIC FLUORIDES HAVE BEEN SHOWN TO INCREASE BONE DENSITY.

EYE CONTACT ACUTE EXPOSURE EFFECTS: DUST MAY IRRITATE EYES.

**SKIN CONTACT ACUTE EXPOSURE EFFECTS:**

SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.

**INGESTION ACUTE EXPOSURE EFFECTS:**

NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED.

**SECTION 4. FIRST AID MEASURES****INHALATION:**

REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY.

**SKIN CONTACT:**

WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSISTANCE.

**EYE CONTACT:**

WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE, IF NEEDED.

**INGESTION:**

CALL POISON CONTROL CENTER, HOSPITAL EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY.

**SECTION 5. FIRE FIGHTING MEASURES**

FIRE FIGHTING PROCEDURES: NOT APPLICABLE

HAZARDOUS PRODUCTS/COMBUSTION: NONE.

HAZARD RATING SOURCE:

**NFPA:**

|              |   |
|--------------|---|
| HEALTH       | 1 |
| FLAMMABILITY | 0 |
| REACTIVITY   | 0 |
| OTHER        |   |

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

CLEAN-UP: FOLLOW NORMAL CLEAN UP PROCEDURES.

**SECTION 7. HANDLING AND STORAGE**

HANDLING: HANDLE WITH ADEQUATE VENTILATION FOR NUISANCE DUST.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****VENTILATION PROTECTION:**

RECOMMEND USING LOCAL EXHAUST VENTILATION WHEN GENERAL VENTILATION IS NOT KEEPING THE AIRBORNE CONCENTRATION BELOW THE TLV.

**RESPIRATORY PROTECTION:**

RESPIRATORS ARE REQUIRED WHEN AIRBORNE CONTAMINANT LEVELS EXCEED THE TLV(S).

**EYE PROTECTION:**

ALWAYS WEAR SAFETY GLASSES OR SOME TYPE OF EYE PROTECTION WHILE SANDING.

**OTHER PROTECTION:**

USE OF THIS PRODUCT MAY CREATE ELEVATED SOUND LEVELS. HEARING PROTECTION SHOULD BE WORN WHERE REQUIRED (SEE OSHA 29 CFR 1910.134 AND OTHER APPLICABLE REGULATIONS).

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE & ODOR: SOLID ARTICLE. ODORLESS.

**SECTION 10. STABILITY AND REACTIVITY**

INCOMPATIBILITIES: AVOID ACIDS OF ALL TYPES WITH A pH <4.0.

**DECOMPOSITION:**

IN USE, DUST AND DECOMPOSING ODORS MAY BE GENERATED. IN MOST CASES, THE MATERIAL REMOVED FROM THE WORKPLACE WILL BE SIGNIFICANTLY GREATER THAN THE SANDPAPER COMPONENTS.

**SECTION 11. TOXICOLOGICAL INFORMATION**

CARCINOGENICITY: NOT APPLICABLE

LD50/LC50: VALUES ARE NOT APPROPRIATE OR AVAILABLE.

**SECTION 12. ECOLOGICAL INFORMATION**

CHEMICAL FATE: NOT APPLICABLE



**SECTION 13. DISPOSAL CONSIDERATIONS****WASTE DISPOSAL:**

USE STANDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS.

**SECTION 14. TRANSPORT INFORMATION****HAZARD CLASS:**

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY THE DEPARTMENT OF TRANSPORTATION. (USA)

THIS PRODUCT IS "NOT REGULATED" UNDER THE TRANSPORTATION OF DANGEROUS GOODS ACT. (CANADA)

**SECTION 15. REGULATORY INFORMATION****EXPOSURE LIMITS/REGULATORY INFORMATION:**

| SUBSTANCE DESCRIPTION       | UNITS | OSHA    | ACGIH   | MOL     |
|-----------------------------|-------|---------|---------|---------|
| ALUMINUM OXIDE, NON-FIBROUS | MG/M3 | 15.0000 | 10.0000 | 10.0000 |
| CLOTH OR PAPER BACKING      | PPM   | 0.0000  | 0.0000  | 0.0000  |
| BINDER SYSTEM               | PPM   | 0.0000  | 0.0000  | 0.0000  |
| INORGANIC FLUORIDES         | MG/M3 | 2.5000  | 2.5000  | 2.5000  |
| ZIRCONIUM                   | MG/M3 | 5.0000  | 0.0000  | 0.0000  |

**LEGEND:****EXPOSURE LIMIT DESCRIPTIONS:**

CA PROP 65: NOT APPLICABLE

**TSCA SECTION 8(B) - INVENTORY STATUS:**

ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE TOXIC SUBSTANCE CONTROL ACT.

**DOMESTIC SUBSTANCE LIST:**

ALL COMPONENTS OF THIS PRODUCT ARE FOUND ON THE DOMESTIC SUBSTANCE LIST.

**SECTION 16. OTHER INFORMATION****DISCLAIMER:**

THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE TAKEN FROM SOURCES BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF; HOWEVER, THE COMPANY MAKES NO WARRANTY WITH RESPECT TO THE ACCURACY OF THE INFORMATION OR THE SUITABILITY OF THE RECOMMENDATIONS, AND ASSUMES NO LIABILITY TO ANY USER THEREOF.

**KEY TO ABBREVIATIONS:**

## KEY TO ABBREVIATIONS:

EQ=EQUAL

LT=LESS THAN

GT=GREATER THAN

AP=APPROXIMATELY

TR=TRACE

ND=NO DATA AVAILABLE

# Material Safety Data Sheet

24 Hour Assistance:  
1-847-367-7700

Rust-Oleum Corp.  
www.rustoleum.com

## 1. Identification

Product Name: BEYE QT 6 PK ZERO INT/EXT WATER BASE Revision Date: 10/17/2012

Identification Number: 249019

Product Use/Class: Primer/ Waterbased

Supplier: Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, IL 60061  
USA

Manufacturer: Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, IL 60061  
USA

Preparer: Regulatory Department

## 2. Hazard Identification

**EMERGENCY OVERVIEW:** Use ventilation necessary to keep exposures below recommended exposure limits, if any.

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Causes eye irritation.

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Substance may cause slight skin irritation.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Low hazard for usual industrial handling or commercial handling by trained personnel.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Substance may be harmful if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula.

**PRIMARY ROUTE(S) OF ENTRY:** Eye Contact, Inhalation, Skin Absorption, Skin Contact

## 3. Composition/Information On Ingredients

| Chemical Name    | CAS-No.    | Weight %<br>Less Than | ACGIH TLV-<br>TWA | ACGIH TLV-<br>STEL | OSHA PEL-TWA              | OSHA PEL-<br>CEILING |
|------------------|------------|-----------------------|-------------------|--------------------|---------------------------|----------------------|
| Titanium Dioxide | 13463-67-7 | 15.0                  | 10 mg/m3          | N.E.               | 15 mg/m3 [Total<br>Dust]  | N.E.                 |
| Talc             | 14807-96-6 | 5.0                   | 2 mg/m3           | N.E.               | 0.1 mg/m3<br>[Respirable] | N.E.                 |
| Amorphous Silica | 7631-86-9  | 1.0                   | N.E.              | N.E.               | 0.8 mg/m3                 | N.E.                 |

## 4. First-aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation.

**FIRST AID - INGESTION:** Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

## 5. Fire-fighting Measures

**Flash Point, °F** >200 (Setaflash)

**EXTINGUISHING MEDIA:** Alcohol Foam, Carbon Dioxide, Dry Chemical, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS TESTED TO BE GREATER THAN 200 DEGREES F.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent buildup of steam.

## 6. Accidental Release Measures

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Avoid contact with eyes.

**STORAGE:** Keep from freezing. Keep container closed when not in use.

## 8. Exposure Controls/Personal Protection

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

**EYE PROTECTION:** Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking.

## 9. Physical and Chemical Properties

|                             |                  |                          |                   |
|-----------------------------|------------------|--------------------------|-------------------|
| <b>Vapor Density</b>        | Heavier than Air | <b>Odor:</b>             | Mild              |
| <b>Appearance:</b>          | Liquid           | <b>Evaporation Rate:</b> | Slower than Ether |
| <b>Solubility in Water:</b> | Miscible         | <b>Freeze Point:</b>     | N.D.              |
| <b>Specific Gravity:</b>    | 1.280            | <b>pH:</b>               | N.D.              |
| <b>Physical State:</b>      | Liquid           |                          |                   |

(See section 16 for abbreviation legend)

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Avoid contact with strong acid and strong bases.

**INCOMPATIBILITY:** Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

## 11. Toxicological Information

| <u>Chemical Name</u> | <u>LD50</u>             | <u>LC50</u>                 |
|----------------------|-------------------------|-----------------------------|
| Titanium Dioxide     | >7500 mg/kg (Rat, Oral) | N.E.                        |
| Talc                 | N.E.                    | TCLo: 11 mg/m3 (Inhalation) |
| Amorphous Silica     | >7500 mg/kg (Rat)       | >250 mg/m3 (Rat, 6Hr)       |

## 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components.

## 13. Disposal Information

**DISPOSAL INFORMATION:** Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

## 14. Transport Information

|                       | <u>Domestic (USDOT)</u> | <u>International (IMDG)</u> | <u>Air (IATA)</u> |
|-----------------------|-------------------------|-----------------------------|-------------------|
| Proper Shipping Name: | Not Regulated           | Not Regulated               | Not Regulated     |
| Hazard Class:         | N.A.                    | N.A.                        | N.A.              |
| UN Number:            | N.A.                    | N.A.                        | N.A.              |
| Packing Group:        | N.A.                    | N.A.                        | N.A.              |
| Limited Quantity:     | No                      | No                          | No                |

## 15. Regulatory Information

### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard, Chronic Health Hazard

#### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No SARA 313 components exist in this product.

#### TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

**International Regulations:****CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

Canadian WHMIS Class: D2A D2B

**16. Other Information****HMIS Ratings:**

Health: 2\*      Flammability: 1      Physical Hazard: 0      Personal Protection: X

**NFPA Ratings:**

Health: 2      Flammability: 1      Instability: 0

**REASON FOR REVISION:** No Information

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.



MSDS No.: 310  
Revision No.: 004  
Revision Date: 05/17/12  
Page: 1 of 2

## MATERIAL SAFETY DATA SHEET

**Product name:** CF 812 Insulating Foam – W&D  
**Description:** Polyurethane Foam  
**Supplier:** Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121  
**Emergency # (Chem-Trec.):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

## INGREDIENTS AND EXPOSURE LIMITS

| Ingredients:                           | CAS Number: | PEL:     | TLV:     | STEL: |
|--|-------------|----------|----------|-------|
| Polymeric diphenylmethane diisocyanate | 9016-87-9   | NE       | NE       | NE    |
| Isobutane                              | 75-28-5     | NE       | 1000 ppm | NE    |
| Propane                                | 074-98-6    | 1000 ppm | 1000 ppm | NE    |

**Abbreviations:** PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value.

STEL = Short Term Exposure Limit. C = Ceiling. NE = None Established. NA = Not Applicable

## PHYSICAL DATA

|                                 |                       |                             |                 |
|---------------------------------|-----------------------|-----------------------------|-----------------|
| <b>Appearance:</b>              | Yellow to tan liquid. | <b>Odor:</b>                | Mild.           |
| <b>Vapor Density: (air = 1)</b> | Not determined.       | <b>Vapor Pressure:</b>      | 8.3 bar @ 68° F |
| <b>Boiling Point:</b>           | Not determined.       | <b>VOC Content:</b>         | 2.4 g/l         |
| <b>Evaporation Rate:</b>        | Not determined.       | <b>Solubility in Water:</b> | Not soluble.    |
| <b>Specific Gravity:</b>        | 0.9-1.1               | <b>pH:</b>                  | Not determined. |

## FIRE AND EXPLOSION HAZARD DATA

|  |   |                          |           |
|--|---|--------------------------|-----------|
| <b>Flash Point:</b>                        | Flammable Gas   | <b>Flammable Limits:</b> | 0.4 - 32% |
| <b>Extinguishing Media:</b>                | CO <sub>2</sub> , Dry Chemical, Foam, Water   |                          |           |
| <b>Special Fire Fighting Proc.</b>         | None known for cured foam. Uncured isocyanates react with water to release CO <sub>2</sub> .  |                          |           |
| <b>Unusual Fire and Explosion Hazards:</b> | Extremely flammable. Contains flammable propellants under pressure. Aerosol cans exposed to fire or direct heat can rupture from pressure build-up. |                          |           |

## REACTIVITY DATA

|                                  |  |
|----------------------------------|--|
| <b>Stability:</b>                | Reacts with alcohols, amines, aqueous acids, and alkalis. Reacts with water (moisture) producing CO <sub>2</sub> . |
| <b>Hazardous Polymerization:</b> | Will not occur. Reacts with water (nonviolently).  |
| <b>Decomposition Products:</b>   | Thermal decomposition can yield CO, CO <sub>2</sub> , HCN, HCl, NO <sub>x</sub> .                                  |
| <b>Conditions to Avoid:</b>      | Temperature extremes will shorten product shelf life; i.e. below 41° F / above 77° F.                              |

## HEALTH HAZARD DATA

|   |  |
|---|--|
| <b>Known Hazards:</b>                             | <b>Acute:</b> Eye, skin, and respiratory irritation. <b>Chronic:</b> Respiratory and skin sensitization  |
| <b>Signs and Symptoms of Exposure:</b>            | <b>Eyes:</b> Can adhere to cornea. <b>Skin:</b> Can adhere to the skin. Can cause irritation and possibly sensitization; e.g. itching, swelling, rashes, etc. <b>Inhalation:</b> Vapor may cause irritation of the breathing tract and sensitization. Sensitization causes an allergic (asthmatic-like) response. Hypersensitive persons may react at very low isocyanate levels. <b>Ingestion:</b> Effects of ingestion have not been determined. Not a likely route of exposure. |
| <b>Routes of Exposure:</b>                        | Inhalation. Contact.   |
| <b>Carcinogenicity:</b>                           | No ingredients are classified as a carcinogen by IARC, NTP or OSHA.  |
| <b>Medical Conditions Aggravated by Exposure:</b> | Eye, skin, and respiratory conditions.   |



## EMERGENCY AND FIRST AID PROCEDURES

|                    |  |
|--------------------|--|
| <b>Eyes:</b>       | <b>Immediately</b> flush with large amounts of water. Contact a physician immediately.   |
| <b>Skin:</b>       | Wipe off skin immediately with soft cloth. Cured foam can only be removed mechanically. Contact a physician if symptoms occur.   |
| <b>Inhalation:</b> | Should symptoms occur, immediately move to fresh air. Call a physician if symptoms persist. Those individuals who develop an allergic reaction should avoid future use of this product.    |
| <b>Ingestion:</b>  | Seek medical attention immediately. Do not induce vomiting unless directed by a physician.   |
| <b>Other:</b>      | Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided. |

## CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

|                                |  |
|--------------------------------|--|
| <b>Ventilation:</b>            | Ensure adequate air movement (natural or mechanically induced fresh air movements).                          |
| <b>Eye Protection:</b>         | Goggles recommended; safety glasses with side shields as a minimum.  |
| <b>Skin Protection:</b>        | Impermeable gloves are recommended. Wear other protective clothing as required to prevent contact with skin. |
| <b>Respiratory Protection:</b> | Not normally required.   |

## PRECAUTIONS FOR SAFE HANDLING AND USE

|  |  |
|--|--|
| <b>Handling and Storing Precautions:</b> | Avoid contact with skin, eyes, and respiratory system. Material will adhere to eyes and skin. Contents under pressure. Extremely flammable. Do not apply direct heat to the cans. Before using, remove ignition sources such as flames or equipment / tools that generate sparks. Store in a cool dry place. Do not store in direct sunlight. Keep from freezing. Store between 41° and 77° F. Always wash thoroughly after handling chemical products. For industrial use only. Keep out of reach of children. Follow label / use instructions. |
| <b>Spill Procedures:</b>                 | Wear appropriate personal protective equipment. CF 812 foam will polymerize (cure) upon contact with air/moisture. Allow product to cure, then remove for disposal. See disposal guidelines below.   |

## REGULATORY INFORMATION

|                                     |   |
|-------------------------------------|---|
| <b>TSCA Inventory Status:</b>       | Chemical components listed on TSCA inventory.   |
| <b>SARA Title III, Section 313:</b> | This product contains 5 - 25% Polymeric diphenylmethane diisocyanate (CAS # 9016-87-9) which is subject to reporting under Section 313 of SARA Title III (40 CFR Part 372). (Technical note: MDI is not available in cured foam due to reaction of parts A and B upon exposure to air; i.e. when released from the can) |
| <b>DOT Shipping Name:</b>           | Limited Quantity - LQ   |
| <b>IATA / ICAO Shipping Name:</b>   | Aerosols, flammable, Class 2.1, UN 1950   |
| <b>HMIS Codes:</b>                  | Health 2, Flammability 3, Reactivity 1, PPE B (Goggles, Gloves)   |
| <b>EPA Waste Code(s):</b>           | D001,D003 (for aerosol cans)  |
| <b>Waste Disposal Methods:</b>      | Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.  |
| <b>Hazard Communication</b>         | This MSDS has been prepared in accordance with the Federal OSHA Hazard Communication Standard, 29 CFR1910.1200.   |

## CONTACTS

|                                 |  |                           |                |
|---------------------------------|--|---------------------------|----------------|
| <b>Customer Service:</b>        | 1 800 879 8000   | <b>Technical Service:</b> | 1 800 879 8000 |
| <b>Health / Safety:</b>         | 1 800 879 6000   | Jerry Metcalf             | (x1003704)     |
| <b>Emergency # (Chem-Trec):</b> | 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 703 527 3887 (other countries) |                           |                |

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.



CUSTOMER: 442253

ORDER #: 902170

BATCH #: 122760062

STICKER #: 122760393

ZONE #:301

BARCODE #:9611018095150216641226

PRODUCT NAME: CHILL CLEAN EF AEROSOL, M/M

Supersedes Date 03/01/2005

Material Safety Data Sheet: CHILL CLEAN EF AEROSOL, M/M

Issuing Date 02/18/2010

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHILL CLEAN EF AEROSOL, M/M

Recommended Use Cleaning agent

Information on Manufacturer

CHEMSEARCH FE DIV. OF NCH CORP.

BOX 152170

IRVING, TX 75015

Product Code 5201

Chemical Nature Aqueous solution (aerosol)

Emergency Telephone Number

CHEMTREC ® 800-424-9300

## 2. HAZARDS IDENTIFICATION

## Emergency Overview

## WARNING

Severe skin irritation

Severe eye irritation

May cause allergic skin reaction

May be harmful if inhaled

Harmful if swallowed

Contents under pressure

Color Colorless

Potential Health Effects

Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Eyes

Skin

Inhalation

Ingestion

Chronic Toxicity

Target Organ Effects

Aggravated Medical Conditions

Potential Environmental Effects

Physical State Liquid

Odor Soapy

Eye contact, Skin contact, Inhalation.

Inhalation, Skin Absorption.

Severe irritation.

Severe irritation. May cause allergic skin reaction.

Causes respiratory tract irritation. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Irritating to mouth, throat, and stomach.

May cause sensitization by skin contact, Liver and kidney injuries may occur.

Liver, Kidney, Respiratory system, Skin, Central nervous system, Testes, Bone Marrow.

Skin disorders, Respiratory disorders, Central nervous system, Kidney disorders, Liver disorders.

See Section 12 for additional Ecological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component                         | CAS-No    |
|-----------------------------------|-----------|
| Triethanolamine                   | 102-71-6  |
| Butane                            | 106-97-8  |
| Polyethylene-polypropylene glycol | 9003-11-6 |

## 4. FIRST AID MEASURES

General Advice

Eye Contact

Skin Contact

Inhalation

Ingestion

Notes to Physician

Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mist, or gas.

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

May cause sensitization of susceptible persons.

## 5. FIRE-FIGHTING MEASURES

Flash Point Not combustible

Autoignition Temperature No information available.

Flammability Limits in Air % Mixture.

Suitable Extinguishing Media

Water spray, Carbon dioxide (CO2), Foam, Dry chemical, Alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Material can create slippery conditions. Flame extension: 0 inches / 0 cm and Burnback: 0 inches / 0 cm.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Aerosol Level (NFPA 30B) -

NFPA Health 2

HMIS Health 2

Method

Not applicable

Upper 8.4

Lower 1.8

Flammability 1

Instability 0

Flammability 1

Instability 0

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Environmental Precautions

Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Do not flush into surface water or sanitary sewer system.

## Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

## Methods for Cleaning Up

Pick up and transfer to properly labeled containers.

## Neutralizing Agent

Not applicable.

## 7. HANDLING AND STORAGE

## Handling

Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mist or gas.

## Storage

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not freeze.

## Storage Temperature

Minimum 35°F/2°C

Maximum 120°F/49°C

## Storage Conditions

Indoor

X

Outdoor

Heated

Refrigerated

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Exposure Guidelines

| Component                         | ACGIH TLV                | OSHA PEL          | NIOSH                                    |
|-----------------------------------|--------------------------|-------------------|--|
| Triethanolamine                   | TWA: 5 mg/m <sup>3</sup> | No data available | No data available                        |
| Butane                            | TWA: 1000 ppm            | No data available | TWA: 1900 mg/m <sup>3</sup> TWA: 800 ppm |
| Polyethylene-polypropylene glycol | No data available        | No data available | No data available                        |

## Engineering Measures

Ensure adequate ventilation, especially in confined areas.

## Personal Protective Equipment

## Eye/Face Protection

Tightly fitting safety goggles.

## Skin Protection

Wear suitable protective clothing, Impervious gloves.

## Respiratory Protection

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## General Hygiene Considerations

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Physical State

Liquid

## Viscosity

Non viscous

## Color

Colorless

## Odor

Soapy

## Appearance

Transparent

## pH

11.8

## Specific Gravity

0.98

## Evaporation Rate

4.8 (Butyl acetate=1)

## Percent Volatile (Volume)

96.2

## VOC Content (%)

3.1

## VOC Content (g/l)

31

## Vapor Pressure

42.1 mmHg @ 70 °F

## Vapor Density

1.4 (Air = 1.0)

## Solubility

Partly soluble

## Boiling Point/Range

210°F/99°C

## 10. STABILITY AND REACTIVITY

## Chemical Stability

Stable. Hazardous polymerization does not occur.

## Conditions to Avoid

Heat, flames, and sparks.

## Incompatible Products

Strong oxidizing agents, Acids, Bases, Highly halogenated compounds, Acid anhydrides, Aldehydes, Under certain conditions, may react with nitrites or other nitrosating agents to form carcinogenic nitrosamines.

## Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides (NOx).

## Possibility of Hazardous Reactions

None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

## Product Information

No information available.

## Component Information

## Acute toxicity

| Component                         | LD50 Oral          | LD50 Dermal                            | LC50 Inhalation      | Draize Test       | Other             |
|-----------------------------------|--------------------|--|----------------------|-------------------|-------------------|
| Triethanolamine                   | 4190 mg/kg ( Rat ) | 2000 mg/kg ( Rabbit ) 16 mL/kg ( Rat ) | no data available    | no data available | no data available |
| Butane                            | no data available  | no data available                      | 658 mg/L ( Rat ) 4 h | no data available | no data available |
| Polyethylene-polypropylene glycol | 5700 mg/kg ( Rat ) | no data available                      | no data available    | no data available | no data available |

## Chronic Toxicity

| Component                         | Mutagenicity      | Sensitization      | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects                           |
|-----------------------------------|-------------------|--------------------|------------------------|-----------------------|--|
| Triethanolamine                   | no data available | Skin sensitization | no data available      | no data available     | Bone marrow, liver, kidney, CNS, blood, testes |
| Butane                            | no data available | no data available  | no data available      | no data available     | CNS  |
| Polyethylene-polypropylene glycol | no data available | no data available  | no data available      | no data available     | no data available                              |

## Carcinogenicity

| Component                         | ACGIH          | IARC           | NTP            | OSHA           | Other          |
|-----------------------------------|----------------|----------------|----------------|----------------|----------------|
| Triethanolamine                   | not applicable | not applicable | not applicable | not applicable | not applicable |
| Butane                            | not applicable | not applicable | not applicable | not applicable | not applicable |
| Polyethylene-polypropylene glycol | not applicable | not applicable | not applicable | not applicable | not applicable |

## 12. ECOLOGICAL INFORMATION

## Product Information

No information available.

## Component Information

| Component                         | Toxicity to Algae  | Toxicity to Fish   | Microtox                 | Water Flea                          | log Pow |
|-----------------------------------|--|--|--------------------------|-------------------------------------|---------|
| Triethanolamine                   | 72 Hr EC50 Desmodesmus subspicatus: 216 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 169 mg/L | 96 Hr LC50 Pimephales promelas: 10600-13000 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >1000 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 450-1000 mg/L [static] | EC50 > 10000 mg/L 30 min | 24 Hr EC50 Daphnia magna: 1386 mg/L | -2.53   |
| Butane                            | no data available  | no data available  | no data available        | no data available                   | 2.89    |
| Polyethylene-polypropylene glycol | no data available  | no data available  | no data available        | no data available                   | N/A     |

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

### 13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with local regulations.

Container Disposal

Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

### 14. TRANSPORT INFORMATION

DOT

Proper Shipping Name  
Hazard Class  
Description

Consumer commodity  
ORM-D  
Consumer commodity ,ORM-D,

TDG

Proper shipping name  
Hazard Class  
UN-No  
Description

Aerosols  
2.2  
UN1950  
AEROSOLS,2.2,UN1950 LTD. QTY.

ICAO

UN-No  
Proper Shipping Name  
Hazard Class  
Shipping Description

UN1950  
Aerosols  
2.2  
Aerosols,UN1950 LTD. QTY.

IATA

UN-No  
Proper Shipping Name  
Hazard Class  
ERG Code  
Shipping Description

UN1950  
Aerosols, non-flammable  
2.2  
2L  
UN1950,Aerosols, non-flammable,2.2 LTD. QTY.

IMDG/IMO

Proper Shipping Name  
Hazard Class  
UN-No  
EmS No.  
Shipping Description

Aerosols  
2  
UN1950  
F-D, S-U  
UN1950, Aerosols,2.2 LTD. QTY.

### 15. REGULATORY INFORMATION

Inventories

TSCA

Complies

DSL

Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

| Acute Health Hazard | Chronic Health Hazard | Fire Hazard | Sudden Release of Pressure Hazard | Reactive Hazard |
|---------------------|-----------------------|-------------|-----------------------------------|-----------------|
| Yes                 | Yes                   | No          | Yes                               | No              |

CERCLA

| Component                         | Hazardous Substances RQs | CERCLA EHS RQs |
|-----------------------------------|--------------------------|----------------|
| Triethanolamine                   | Not applicable           | Not applicable |
| Butane                            | Not applicable           | Not applicable |
| Polyethylene-polypropylene glycol | Not applicable           | Not applicable |

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

| Component      | CAS-No    | California Prop. 65   |
|----------------|-----------|---|
| 1,4-Dioxane    | 123-91-1  | carcinogen, initial date 1/1/88   |
| Lead           | 1317-35-8 | carcinogen, initial date 10/1/92 developmental toxicity, initial date 2/27/87   |
| Lead           | 7439-92-1 | carcinogen, initial date 10/1/92 developmental toxicity, initial date 2/27/87 male reproductive toxicity, initial date 2/27/87 female reproductive toxicity, initial date 2/27/87 |
| Mercury        | 7439-97-6 | developmental toxicity, initial date 7/1/90   |
| Nickel         | 7440-02-0 | carcinogen, initial date 5/7/04 carcinogen, initial date 10/1/89  |
| Arsenic        | 7440-38-2 | carcinogen, initial date 2/27/87  |
| Chromium       | 7440-47-3 | carcinogen, initial date 2/27/87, developmental female, male 12/19/08   |
| Cobalt         | 7440-48-4 | carcinogen, initial date 7/1/92 (powder)  |
| Ethylene oxide | 75-21-8   | carcinogen, initial date 7/1/87 female reproductive toxicity, initial date 2/27/87  |

|                   |            |                                  |
|-------------------|------------|----------------------------------|
| Propylene oxide   | 75-56-9    | carcinogen, initial date 10/1/88 |
| 2-Phenylphenol    | 90-43-7    | carcinogen, initial date 8/4/00  |
| Cadmium compounds | RR-00559-4 | carcinogen, initial date 10/1/87 |

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

A Compressed gases, D2B Toxic materials.



**16. OTHER INFORMATION**

Prepared By Dan Hollas  
 Supercedes Date 03/01/2005  
 Issuing Date 02/18/2010  
 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

CHEMSEARCH FE DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



# MATERIAL SAFETY DATA SHEET

OK

## Section 1: Product & Company Identification

**Product Name:** Contact Cleaner 2000® Precision Cleaner (aerosol)

**Product Number (s):** 02140

**Product Use:** Precision electronics cleaner

### Manufacturer / Supplier Contact Information:

#### In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

[www.crcindustries.com](http://www.crcindustries.com)

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

#### In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

[www.crc-canada.ca](http://www.crc-canada.ca)

1-905-670-2291

#### In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

[www.crc-mexico.com](http://www.crc-mexico.com)

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

## Section 2: Hazards Identification

### Emergency Overview

**WARNING:** Vapor Harmful. Harmful if Swallowed. May Cause Eye Irritation. Contents Under Pressure.  
Appearance & Odor: Clear, colorless liquid with a faint ethereal odor

### Potential Health Effects:

#### ACUTE EFFECTS:

**EYE:** May cause moderate to severe eye irritation with tearing, pain or blurred vision.

**SKIN:** Immediate effects may include mild to moderate irritation, itching, redness and swelling. Prolonged or repeated contact can cause defatting of the skin, with redness and rash.

**INHALATION:** Overexposure to vapor may cause dizziness, loss of concentration, nausea, headache, and irritation of the respiratory tract. With high exposure levels, effects can include central nervous system (CNS) depression, unconsciousness and cardiac arrhythmia. Product vapors displace air and can cause suffocation especially in a confined space.

**INGESTION:** Swallowing may irritate the mouth and gastro-intestinal tract. The major hazard is aspiration of the liquid into the lungs during swallowing or vomiting. This may result in chemical pneumonia. Symptoms include coughing, gasping, shortness of breath, bluish discoloration of the skin, and fever. Pulmonary edema, confusion, coma and seizures may occur in more serious cases.

**CHRONIC EFFECTS:** None identified

**TARGET ORGANS:** None identified

**Medical Conditions Aggravated by Exposure:** diseases of the central nervous system or cardiovascular system

See Section 11 for toxicology and carcinogenicity information on product ingredients.

**Product Name:** Contact Cleaner 2000® Precision Cleaner (aerosol)

**Product Number (s):** 02140

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### Section 3: Composition/Information on Ingredients

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| COMPONENT                        | CAS NUMBER        | % by Wt. |
|----------------------------------|-------------------|----------|
| Decafluoropentane (HFC-43-10mee) | 138495-42-8       | 5 - 15   |
| COzol® 401                       | proprietary blend | 80 - 95  |
| Carbon dioxide                   | 124-38-9          | 3 - 8    |

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### Section 4: First Aid Measures

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**Eye Contact:** Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

**Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

**Inhalation:** Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Do NOT give epinephrine (adrenaline). Call a physician.

**Ingestion:** Do NOT induce vomiting. Immediately give 2 glasses of water. Do NOT give stimulants. Get medical attention immediately.

**Note to Physicians:** Because of possible disturbances of cardiac rhythm, catecholamine drugs such as adrenaline should be used with special caution and only in situations of emergency life support. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions.

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### Section 5: Fire-Fighting Measures

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**Flammable Properties:** This product is nonflammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3(c)(6) ). However, it could be made to burn or flash under certain conditions.

Flash Point: None  
Autoignition Temperature: ND

Upper Explosive Limit: 18 (estimate)  
Lower Explosive Limit: 6.7 (estimate)

#### **Fire and Explosion Data:**

**Suitable Extinguishing Media:** Choose an extinguishing agent appropriate for the surrounding fire.

**Products of Combustion:** Product will decompose at high temperatures. Decomposition products include hydrofluoric acid, hydrogen chloride gas and carbonyl halides, such as phosgene.

**Explosion Hazards:** Aerosol containers, when exposed to heat from fire, may build pressure and explode.

**Protection of Fire-Fighters:** Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

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### Section 6: Accidental Release Measures

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**Personal Precautions:** Use personal protection recommended in Section 8. Avoid inhaling vapors

**Environmental Precautions:** Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.



**Product Name: Contact Cleaner 2000® Precision Cleaner (aerosol)**

**Product Number (s): 02140**

**Methods for Containment & Clean-up:** Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

## Section 7: Handling and Storage

**Handling Procedures:** Minimize vapor accumulation by providing air circulation. Vapors are heavier than air and will collect in low areas. Avoid breathing vapors or mist. Wear eye protection. Wash thoroughly after handling. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

**Storage Procedures:** Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120°F / 49°C to prevent cans from rupturing. Do not store near heat sources or incompatible materials.

**Aerosol Storage Level:** I

## Section 8: Exposure Controls/Personal Protection

### Exposure Guidelines:

| COMPONENT         | OSHA |          | ACGIH |       | OTHER |        | UNIT |
|-------------------|------|----------|-------|-------|-------|--------|------|
|                   | TWA  | STEL     | TWA   | STEL  | TWA   | SOURCE |      |
| Decafluoropentane | NE   | NE       | NE    | NE    | 200   | mfr    | ppm  |
| COzol® 401        | 400  | 500 (v)  | 200   | 400   | NE    |        | ppm  |
| Carbon dioxide    | 5000 | 30000(v) | 5000  | 30000 | NE    |        | ppm  |

N.E. – Not Established

(c) – ceiling

(s) – skin

(v) – vacated

mfr – manufacturer's recommendation

### Controls and Protection:

**Engineering Controls:** Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

**Respiratory Protection:** None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

**Eye/face Protection:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**Skin Protection:** Use protective gloves such as nitrile, Viton®, PVA, or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

**Product Name:** Contact Cleaner 2000® Precision Cleaner (aerosol)

**Product Number (s):** 02140

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## Section 9: Physical and Chemical Properties

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Physical State: Liquid

Color: Clear, colorless

Odor: Faint ethereal

Odor Threshold: ND

Specific Gravity: 1.27

Initial Boiling Point: ~ 104°F / 40°C

Freezing Point: ND

Vapor Pressure: 226 mmHg @ 68°F / 20°C

Vapor Density: > 1 (air = 1)

Evaporation Rate: fast

Solubility: Slight in water

Coefficient of water/oil distribution: ND

pH: NA

|                             |          |       |      |      |        |           |       |
|-----------------------------|----------|-------|------|------|--------|-----------|-------|
| Volatile Organic Compounds: | Federal: | wt %: | 57.5 | g/L: | 730.3  | lbs./gal: | 6.1   |
|                             | CARB:    | wt %: | 95   | g/L: | 1206.5 | lbs./gal: | 10.05 |

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## Section 10: Stability and Reactivity

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Stability: Stable

Conditions to Avoid: Avoid temperature extremes. Exposure of this product to high energy sources may yield toxic and/or corrosive decomposition products.

Incompatible Materials: Alkali or alkaline earth metals such as powdered or freshly abraded aluminum, sodium, magnesium, zinc, beryllium, etc.; strong bases such as sodium hydroxide, potassium hydroxide, etc.; oxidizers

Hazardous Decomposition Products: Hydrofluoric acids, carbonyl halides, such as phosgene, and hydrogen chloride gas. Decafluoropentane is incompatible with strong bases and can react to form salts of hydrofluoric acid.

Possibility of Hazardous Reactions: No

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## Section 11: Toxicological Information

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Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

### Acute Toxicity:

| Component                  | Oral LD50 (rat) | Dermal LD50 (rabbit) | Inhalation LC50 (rat) |
|----------------------------|-----------------|----------------------|-----------------------|
| Decafluoropentane          | > 5 g/kg        | > 5 g/kg             | 11,100 ppm/4H         |
| COzol® 401 (Ingredient #1) | 1235 mg/kg      | > 5 g/kg             | 24,100 ppm            |
| COzol® 401 (Ingredient #2) | > 2000 mg/kg    | No data              | No data               |
| COzol® 401 (Ingredient #3) | 5000 mg/kg      | 12,800 mg/kg         | 16,000 ppm/8H         |
| COzol® 401 (Ingredient #4) | 6653 mg/kg      | No data              | 15,000 ppm            |
| Carbon dioxide             | No data         | No data              | 470,000 ppm/30M       |



**Product Name:** Contact Cleaner 2000® Precision Cleaner (aerosol)  
**Product Number (s):** 02140

**Chronic Toxicity:**

| <u>Component</u>           | <u>OSHA<br/>Carcinogen</u> | <u>IARC<br/>Carcinogen</u> | <u>NTP<br/>Carcinogen</u> | <u>Irritant</u>            | <u>Sensitizer</u> |
|----------------------------|----------------------------|----------------------------|---------------------------|----------------------------|-------------------|
| Decafluoropentane          | No                         | No                         | No                        | E & S (mild)               | No                |
| COzol® 401 (Ingredient #1) | No                         | No                         | No                        | E (moderate) /<br>S (mild) | Unknown           |
| COzol® 401 (Ingredient #2) | No                         | No                         | No                        | E (mild)                   | Unknown           |
| COzol® 401 (Ingredient #3) | No                         | No                         | No                        | E (moderate) /<br>S (mild) | No                |
| COzol® 401 (Ingredient #4) | No                         | No                         | No                        | E, S & R (moderate)        | Unknown           |
| Carbon dioxide             | No                         | No                         | No                        | No                         | No                |

E – Eye      S – Skin      R – Respiratory

Reproductive Toxicity: No information available  
Teratogenicity: No information available  
Mutagenicity: No information available  
Synergistic Effects: No information available

## Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

**Ecotoxicity:** Decafluoropentane – daphnia magna: 11.7 mg/L  
fathead minnow: 27.2 mg/L  
COzol® 401 ingredient 1 - 5 min EC50 Photobacterium phosphoreum: 1142 mg/L  
**Persistence / Degradability:** No information available  
**Bioaccumulation / Accumulation:** No information available  
**Mobility in Environment:** No information available

## Section 13: Disposal Considerations

**Waste Classification:** The dispensed liquid product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)  
Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

## Section 14: Transport Information

**US DOT (ground):** Consumer Commodity, ORM-D  
**ICAO/IATA (air):** Consumer Commodity, ID8000, 9  
**IMO/IMDG (water):** Aerosols, UN1950, 2.2, Limited Quantity  
**Special Provisions:** None

**Product Name:** Contact Cleaner 2000® Precision Cleaner (aerosol)

**Product Number (s):** 02140

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## **Section 15: Regulatory Information**

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### **U.S. Federal Regulations:**

#### **Toxic Substances Control Act (TSCA):**

All ingredients are either listed on the TSCA inventory or are exempt.

#### **Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):**

Reportable Quantities (RQ's) exist for the following ingredients: COzol® 401 ingredient 1 (1000 lbs)

**Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.**

#### **Superfund Amendments Reauthorization Act (SARA) Title III:**

Section 302 Extremely Hazardous Substances (EHS): None

|                                    |                       |     |
|------------------------------------|-----------------------|-----|
| Section 311/312 Hazard Categories: | Fire Hazard           | No  |
|                                    | Reactive Hazard       | No  |
|                                    | Release of Pressure   | Yes |
|                                    | Acute Health Hazard   | Yes |
|                                    | Chronic Health Hazard | No  |

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
None

#### **Clean Air Act:**

Section 112 Hazardous Air Pollutants (HAPs): None

#### **Occupational Safety and Health Administration:**

This product is regulated by the Hazard Communications Standard.

### **U.S. State Regulations:**

#### **California Safe Drinking Water and Toxic Enforcement Act (Prop 65):**

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

**Consumer Products VOC Regulations:** This product cannot be sold for use in California. In other states with Consumer Products VOC regulations, this product is compliant as an Electronic Cleaner.

#### **State Right to Know:**

|                |                                 |
|----------------|---------------------------------|
| New Jersey:    | COzol® 401 ingredients 1, 3 & 4 |
| Pennsylvania:  | COzol® 401 ingredients 1, 3 & 4 |
| Massachusetts: | COzol® 401 ingredients 1, 3 & 4 |
| Rhode Island : | COzol® 401 ingredients 3 & 4    |

### **Canadian Regulations:**

#### **Controlled Products Regulations:**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulation and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: A, D2B

**Canadian DSL Inventory:** All ingredients are either listed on the DSL Inventory or are exempt.

**Product Name: Contact Cleaner 2000® Precision Cleaner (aerosol)**

**Product Number (s): 02140**

**European Union Regulations:**

**RoHS Compliance:** This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

**Additional Regulatory Information:** None

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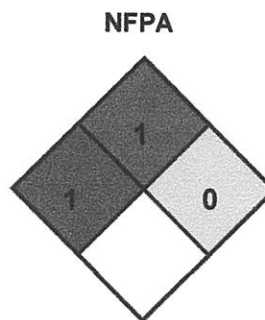
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**Section 16: Other Information**

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| HMIS® (II)    |   |
|---------------|---|
| Health:       | 1 |
| Flammability: | 1 |
| Reactivity:   | 0 |
| PPE:          | B |



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick  
CRC #: 657B  
Revision Date: 12/02/2011

Changes since last revision: Section 8: skin protection

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists  
CARB: California Air Resources Board  
CAS: Chemical Abstract Service  
CFR: Code of Federal Regulations  
DOT: Department of Transportation  
DSL: Domestic Substance List  
g/L: grams per Liter  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods  
IMO: International Maritime Organization  
lbs./gal: pounds per gallon  
LC: Lethal Concentration

LD: Lethal Dose  
NA: Not Applicable  
ND: Not Determined  
NIOSH: National Institute of Occupational Safety & Health  
NFPA: National Fire Protection Association  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PMCC: Pensky-Martens Closed Cup  
PPE: Personal Protection Equipment  
ppm: Parts per Million  
RoHS: Restriction of Hazardous Substances  
STEL: Short Term Exposure Limit  
TCC: Tag Closed Cup  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Information System

# Procter & Gamble

## Professional<sup>®</sup>

### MATERIAL SAFETY DATA SHEET

OK

#### 1. Product and Company Identification

**Material name** PGP Comet Cleaner with Bleach - Ready to Use  
**Product Code** 15154199  
**Version #** 04  
**Revision date** 04-05-2011  
**Manufacturer** Procter & Gamble Professional  
**Address** 2 P&G Plaza  
Cincinnati  
Ohio  
45202  
US  
**P&G Telephone Number:** 1-800-332-7787  
**Emergency 24-hr Telephone #:** CHEMTREC 1-800-424-9300

#### 2. Hazards Identification

##### Potential health effects

###### Routes of exposure

Inhalation. Skin contact. Eye contact.

###### Eyes

Health injuries are not known or expected under normal use. Accidental exposure will cause a moderate but transient irritation.

###### Skin

Health injuries are not known or expected under normal use. May cause transient irritation. Prolonged or repeated contact may be drying to skin.

###### Inhalation

Health injuries are not known or expected under normal use. Irritating to mucous membranes.

###### Ingestion

Health injuries are not known or expected under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

##### Potential environmental effects

Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

#### 3. Composition / Information on Ingredients

| Components            | CAS #     | Percent |
|-----------------------|-----------|---------|
| SODIUM HYPOCHLORITE   | 7681-52-9 | 1-5     |
| SODIUM LAURYL SULFATE | 151-21-3  | 1-5     |
| SODIUM HYDROXIDE      | 1310-73-2 | 0.5-1.5 |

#### 4. First Aid Measures

##### First aid procedures

###### Eye contact

After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.

###### Skin contact

Rinse with water if prolonged contact occurs. Get medical attention if irritation develops and persists.

###### Inhalation

Move to fresh air. Get medical attention if any discomfort continues.

###### Ingestion

Drink a few glasses of water or milk. Do NOT induce vomiting. Get medical attention.

#### 5. Fire Fighting Measures

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Extinguishing media****Suitable extinguishing media**

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Protection of firefighters****Protective equipment and precautions for firefighters**

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**6. Accidental Release Measures****Personal precautions**

Keep unnecessary personnel away. Wear suitable protective clothing.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**Clean-up methods and materials and containment measures**

In case of spills, beware of slippery floors and surfaces. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

**7. Handling and Storage****Handling**

Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of reach of children.

**Storage**

Store in a cool and well-ventilated place. Keep from freezing.

**8. Exposure Controls / Personal Protection****Occupational exposure limits****US. ACGIH Threshold Limit Values**

| Components                      | Type | Value                    |
|---------------------------------|------|--------------------------|
| SODIUM HYDROXIDE<br>(1310-73-2) | TWA  | 2.0000 mg/m <sup>3</sup> |

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components                      | Type | Value                    |
|---------------------------------|------|--------------------------|
| SODIUM HYDROXIDE<br>(1310-73-2) | PEL  | 2.0000 mg/m <sup>3</sup> |

**Engineering controls**

Provide adequate ventilation.

**Personal protective equipment****Eye / face protection**

Not normally needed. If contact is likely, chemical goggles are recommended.

**Skin protection**

Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

**Respiratory protection**

Not normally needed.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties****Color**

Colorless to light yellow.

**Odor**

Scented

**Odor threshold**

Not available.

**Physical state**

Liquid.

**pH**

12.6 - 13.4

**Melting point**

Not available.

**Freezing point**

Not available.

**Boiling point**

Not available.

**Flash point**

>= 201 °F (>= 93.9 °C)

**Evaporation rate**

Not available.

**Vapor pressure**

Not available.

**Specific gravity**

1.045

**Solubility (water)**

Complete

**Partition coefficient (n-octanol/water)**

Not available

VOC

Not available.

## 10. Chemical Stability & Reactivity Information

|                                  |  |
|----------------------------------|--|
| Chemical stability               | This is a stable material.                     |
| Conditions to avoid              | Do not mix with other materials.               |
| Hazardous decomposition products | No hazardous decomposition products are known. |
| Hazardous polymerization         | Will not occur.                                |

## 11. Toxicological Information

### Toxicological data

#### Components

#### Test Results

|                                  |                                   |
|----------------------------------|-----------------------------------|
| SODIUM HYDROXIDE (1310-73-2)     | Acute Other LD50 Mouse: 40 mg/kg  |
| SODIUM LAURYL SULFATE (151-21-3) | Acute Oral LD50 Rat: 1288 mg/kg   |
|                                  | Acute Other LD50 Mouse: 118 mg/kg |
|                                  | Acute Other LD50 Rat: 118 mg/kg   |
| SODIUM HYPOCHLORITE (7681-52-9)  | Acute Oral LD50 Mouse: 5800 mg/kg |
|                                  | Acute Oral LD50 Rat: 8.91 g/kg    |

|                           |                                 |
|---------------------------|---------------------------------|
| Sensitization             | Not available.                  |
| Acute effects             | Causes skin and eye irritation. |
| Chronic effects           | Not available.                  |
| Skin corrosion/irritation | Hazardous by OSHA criteria.     |

## 12. Ecological Information

|                       |  |
|-----------------------|--|
| Environmental effects | Based on ecotoxicity and fate data for the individual ingredients in this specific formulation, and for related consumer household cleaning products formulations, this product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment at relevant environmental concentrations. This product is intended for dispersive use and should not be disposed of directly into the environment. |
|-----------------------|--|

## 13. Disposal Considerations

|                       |   |
|-----------------------|---|
| Waste codes           | D002: Waste Corrosive material [pH ≤2 or ≥12.5, or corrosive to steel]  |
| Disposal instructions | This material and its container must be disposed of as hazardous waste. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations. |

## 14. Transport Information

### DOT

#### Basic shipping requirements:

|                         |   |
|-------------------------|---|
| Proper shipping name    | CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE), LTD QTY [may be shipped as a CONSUMER COMMODITY ORM-D through 12/31/2013] |
| Hazard class            | 8   |
| UN number               | 1760  |
| Packing group           | III   |
| Additional information: |   |
| ERG number              | 154   |

### IMDG

#### Basic shipping requirements:

|                      |   |
|----------------------|---|
| Proper shipping name | CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE), LTD QTY |
| Hazard class         | 8   |
| UN number            | 1760  |
| Packing group        | III   |

### IATA

#### Basic shipping requirements:

|                      |   |
|----------------------|---|
| Proper shipping name | CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE), LTD QTY |
|----------------------|---|



**Hazard class** 8  
**UN number** 1760  
**Packing group** III

**Notes** DO NOT SHIP BY AIR. Does not meet packaging requirements for air shipments.

## 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### CERCLA (Superfund) reportable quantity

SODIUM HYPOCHLORITE: 100.0000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

### State regulations

#### ILLRTK

Contains no Illinois Right To Know toxic substances.

#### US - Connecticut Hazardous Material Survey: Listed substance

SODIUM HYDROXIDE (CAS 1310-73-2) LISTED  
SODIUM HYPOCHLORITE (CAS 7681-52-9) LISTED

#### US - Massachusetts RTK - Substance: Listed substance

SODIUM HYPOCHLORITE (CAS 7681-52-9) LISTED

#### US - New Jersey RTK - Special Hazard: Listed substance

SODIUM HYDROXIDE (CAS 1310-73-2) SPEC\_HAZAROUS

#### US - New Jersey RTK - Substances: Listed substance

SODIUM HYDROXIDE (CAS 1310-73-2) LISTED  
SODIUM HYPOCHLORITE (CAS 7681-52-9) LISTED

#### US - Pennsylvania RTK - Hazardous Substances: Listed substance

SODIUM HYDROXIDE (CAS 1310-73-2) LISTED  
SODIUM HYPOCHLORITE (CAS 7681-52-9) LISTED

#### US - Rhode Island RTK - Hazardous Substances: Listed substance

SODIUM HYDROXIDE (CAS 1310-73-2) LISTED

**Canadian regulations** All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Inventory Status

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other Information

**HMIS® ratings** Health: 3  
Flammability: 1  
Physical hazard: 0

**NFPA ratings** Health: 3  
Flammability: 1  
Instability: 0

## Disclaimer

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.



COMPANY IDENTITY: Packaging Service Co., Inc.  
PRODUCT IDENTITY: CROWN INDUSTRIAL SERIES XYL0L-THINNER  
SDS NUMBER: XYL001

DATE: 06/06/11  
PAGE: 1 OF 8

OK

## SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.

THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this SDS before handling & disposing of this product.

Pass this information on to employees, customers, & users of this product.

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: CROWN INDUSTRIAL SERIES XYL0L (XYLENE) - THINNER  
REVISION DATE: 06/06/2011 SUPERCEDES: 12/03/2007  
COMPANY IDENTITY: Packaging Service Co., Inc.  
COMPANY ADDRESS: 1904 Mykawa Road / P O Box 875  
COMPANY CITY: Pearland, TX 77581  
COMPANY PHONE: 1-281-485-1458  
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)  
CANUTEC: 1-613-996-6666 (CANADA)

### SECTION 2. HAZARDS IDENTIFICATION

#### WARNING!



EXPOSURE PREVENTION: STRICT HYGIENE!

#### RISK STATEMENTS:

R36/37/38 Irritating to eyes, respiratory system and skin.  
R20/65 Harmful by inhalation, may cause lung damage if swallowed.  
R10 Flammable.  
R21 Harmful in contact with skin.

#### SAFETY STATEMENTS:

S25 Avoid contact with eyes.  
S33 Take precautionary measures against static discharges.  
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

COMPANY IDENTITY: Packaging Service Co., Inc.  
PRODUCT IDENTITY: CROWN INDUSTRIAL SERIES XYL0L-THINNER  
SDS NUMBER: XYL001

DATE: 06/06/11  
PAGE: 2 OF 8

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| MATERIAL     | CAS#      | EINECS#   | WT %  |
|--------------|-----------|-----------|-------|
| Xylenes      | 1330-20-7 | 215-535-7 | 75-85 |
| Ethylbenzene | 100-41-4  | 202-849-4 | 15-25 |

### SECTION 4. FIRST AID MEASURES

#### EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

#### SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.  
Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

#### INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

#### SWALLOWING:

Rinse mouth. Give a slurry of activated charcoal in water to drink.  
Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. Rest.  
Do NOT give liquids to an unconscious or convulsing person.

### SECTION 5. FIRE FIGHTING MEASURES

#### FIRE & EXPLOSION PREVENTIVE MEASURES

NO open flames, NO sparks, & NO smoking. Use a closed system, ventilation, explosion-proof electrical equipment, lighting.  
Do NOT use compressed air for filling, discharging, or handling.

#### EXTINGUISHING MEDIA

Use dry powder, AFFF, foam, water spray, carbon dioxide.

#### SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.  
Do not enter confined fire-space without full bunker gear.  
(Helmet with face shield, bunker coats, gloves & rubber boots).  
Use NIOSH approved positive-pressure self-contained breathing apparatus.

COMPANY IDENTITY: Packaging Service Co., Inc.  
PRODUCT IDENTITY: CROWN INDUSTRIAL SERIES XYL0L-THINNER  
SDS NUMBER: XYL001

DATE: 06/06/11  
PAGE: 3 OF 8

## SECTION 5. FIRE FIGHTING MEASURES (CONTINUED)

### UNUSUAL EXPLOSION AND FIRE PROCEDURES

FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Closed containers may explode if exposed to extreme heat.

Applying to hot surfaces requires special precautions.

Empty container very hazardous! Continue all label precautions!

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PROTECTIVE MEASURES:

Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources.  
Filter respirator for organic vapors.

### ENVIRONMENTAL PRECAUTIONS:

Do NOT let this chemical enter the environment.

Keep from entering storm sewers and ditches which lead to waterways.

### CONTAINMENT AND CLEAN-UP MEASURES:

Stop spill at source. Dike and contain. Collect leaking liquid in sealable containers.  
Absorb remaining liquid in sand or inert absorbent. Remove to safe place.

## SECTION 7. HANDLING AND STORAGE

### HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Use only with adequate ventilation. Avoid breathing of vapor or spray mist.

Avoid prolonged or repeated contact with skin.

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

To minimize static discharge when transferring, ensure electrical continuity by bonding and grounding all equipment. Use an inlet line diameter of at least 3.5 inches (8.9 centimeters) with a maximum flow rate of 1 meter/second.

### STORAGE

Keep in fireproof surroundings. Keep separated from strong oxidants, strong acids. Do not store above 49 C/120 F.

Keep container tightly closed & upright when not in use to prevent leakage.

COMPANY IDENTITY: Packaging Service Co., Inc.  
PRODUCT IDENTITY: CROWN INDUSTRIAL SERIES XYL0L-THINNER  
SDS NUMBER: XYL001

DATE: 06/06/11  
PAGE: 4 OF 8

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| MATERIAL     | CAS#      | EINECS#   | TWA (OSHA) | TLV (ACGIH) |
|--------------|-----------|-----------|------------|-------------|
| Xylenes      | 1330-20-7 | 215-535-7 | 100 ppm    | 100 ppm A4  |
| Ethylbenzene | 100-41-4  | 202-849-4 | 100 ppm    | 100 ppm A3  |

| MATERIAL     | CAS#      | EINECS#   | CEILING    | STEL (OSHA/ACGIH) | HAP |
|--------------|-----------|-----------|------------|-------------------|-----|
| Xylenes      | 1330-20-7 | 215-535-7 | None Known | 150 ppm           | Yes |
| Ethylbenzene | 100-41-4  | 202-849-4 | None Known | 125 ppm           | Yes |

In addition, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%): Benzene, Toluene, Cumene

#### RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

#### VENTILATION

LOCAL EXHAUST: Necessary      MECHANICAL (GENERAL): Acceptable  
SPECIAL: None      OTHER: None  
Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

#### PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

#### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.  
Wash at end of each workshift & before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

COMPANY IDENTITY: Packaging Service Co., Inc.  
PRODUCT IDENTITY: CROWN INDUSTRIAL SERIES XYL0L-THINNER  
SDS NUMBER: XYL001

DATE: 06/06/11  
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## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

|  |                                      |
|--|--------------------------------------|
| APPEARANCE:                                      | Liquid, Water-White                  |
| ODOR:  | Aromatic                             |
| ODOR THRESHOLD:                                  | Not Available                        |
| pH (Neutrality):                                 | Not Applicable                       |
| MELTING POINT/FREEZING POINT:                    | Not Available                        |
| BOILING RANGE (IBP, 50%, Dry Point):             | 136 140 142 C / 278 284 288 F        |
| FLASH POINT (TEST METHOD):                       | 27 C / 81 F (TCC)                    |
| EVAPORATION RATE (n-BUTYL ACETATE=1):            | 0.843                                |
| FLAMMABILITY CLASSIFICATION:                     | Class I C                            |
| LOWER FLAMMABLE LIMIT IN AIR (% by vol):         | 1.1                                  |
| UPPER FLAMMABLE LIMIT IN AIR (% by vol):         | Not Available                        |
| VAPOR PRESSURE (mm of Hg)@20 C                   | 6.4                                  |
| VAPOR DENSITY (air=1):                           | 3.7                                  |
| GRAVITY @ 68/68 F / 20/20 C:                     |                                      |
| SPECIFIC GRAVITY (Water=1):                      | 0.870                                |
| POUNDS/GALLON:                                   | 7.247                                |
| WATER SOLUBILITY:                                | Negligible                           |
| PARTITION COEFFICIENT (n-Octane/Water):          | Not Available                        |
| AUTO IGNITION TEMPERATURE:                       | 510 C / 950 F                        |
| DECOMPOSITION TEMPERATURE:                       | Not Available                        |
| REFRACTIVE INDEX:                                | 1.496                                |
| VOC'S (>0.44 Lbs/Sq In) :                        | 100.0 Vol% / 870.0 g/L / 7.2 Lbs/Gal |
| TOTAL VOC'S (TVOC)*:                             | 100.0 Vol% / 870.0 g/L / 7.2 Lbs/Gal |
| NONEXEMPT VOC'S (CVOC)*:                         | 100.0 Vol% / 870.0 g/L / 7.2 Lbs/Gal |
| HAZARDOUS AIR POLLUTANTS (HAPS):                 | 100.0 Wt% / 870.0 g/L / 7.2 Lbs/Gal  |
| NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) | 6.4                                  |

\* Using California South Coast Air Quality Management District (SCAQMD) Rule 443.1.

## SECTION 10. STABILITY & REACTIVITY

### STABILITY

Stable under normal conditions.

### CONDITIONS TO AVOID

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

### MATERIALS TO AVOID

Reacts violently with strong oxidants, strong acids,  
causing fire & explosion hazard. Attacks many plastics, coatings.

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

### HAZARDOUS POLYMERIZATION

Will not occur.

COMPANY IDENTITY: Packaging Service Co., Inc.  
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## SECTION 11. TOXICOLOGICAL INFORMATION

### ACUTE HAZARDS

#### EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.  
Absorption thru skin increases exposure.  
Primary irritation to eyes, redness, tearing, blurred vision.  
Liquid can cause eye irritation. Wash thoroughly after handling.

#### INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.  
Acute overexposure can cause harm to kidneys, blood, nerves, liver, lungs.  
Use of alcoholic beverages enhances the harmful effect.

#### SWALLOWING:

Harmful or fatal if swallowed.  
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.  
The symptoms of chemical pneumonitis may not show up for a few days.

### SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

#### CONDITIONS AGGRAVATED

Chronic overexposure can cause harm to kidneys, blood, nerves, liver, lungs.  
Persons with severe skin, liver or kidney problems should avoid use.

### CHRONIC HAZARDS

#### CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Potential Cancer Hazard based on tests with laboratory animals using Ethylbenzene.  
Overexposure may create cancer risk. Leukemia been reported in humans from Benzene.  
This product contains less than 100 ppm of Benzene.  
Not considered hazardous in such low concentrations.  
Absorption thru skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus.  
Depending on degree of exposure, periodic medical examination is indicated.  
Some persons may be more sensitive to the substance's effect on blood cells.

### MAMMALIAN TOXICITY INFORMATION

| MATERIAL | CAS#      | EINECS#   | LOWEST KNOWN LETHAL DOSE DATA                  |
|----------|-----------|-----------|--|
| Xylene   | 1330-20-7 | 215-535-7 | LOWEST KNOWN LD50 (ORAL)<br>4000.0 mg/kg(Rats) |
| Xylene   | 1330-20-7 | 215-535-7 | LOWEST KNOWN LC50 (VAPORS)<br>5000 ppm (Mice)  |

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PRODUCT IDENTITY: CROWN INDUSTRIAL SERIES XYL0L-THINNER  
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## SECTION 12. ECOLOGICAL INFORMATION

### AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is:  
Fish are adversely affected by components of this product.  
The substance is toxic to aquatic organisms.

### MOBILITY IN SOIL

This material is a mobile liquid.

### DEGRADABILITY

This product is nonbiodegradable.

### ACCUMULATION

This product does not accumulate or biomagnify in the environment.

## SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options.  
Recycle / dispose of observing national, regional, state, provincial and local  
health, safety & pollution laws. If in doubt, contact appropriate agencies.

## SECTION 14. TRANSPORT INFORMATION

IF > 125 LB / 56 KG OF THIS PRODUCT IN 1 CONTAINER, IT EXCEEDS THE "RQ" OF XYLENES.

DOT SHIPPING NAME: UN1993, RQ, Flammable Liquids, n.o.s.  
(Contains: Xylene, Ethylbenzene), 3, PG-III  
DRUM LABEL: (FLAMMABLE LIQUID)  
IATA / ICAO: UN1993, Flammable Liquids, n.o.s.  
(Contains: Xylene, Ethylbenzene), 3, PG-III  
IMO / IMDG: UN1993, Flammable Liquids, n.o.s.  
(Contains: Xylene, Ethylbenzene), 3, PG-III  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

## SECTION 15. REGULATORY INFORMATION

### EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list.

### SARA Title III Section 313 Supplier Notification

This product contains the indicated <\*> toxic chemicals subject to the  
reporting requirements of Section 313 of the Emergency Planning & Community  
Right-To-Know Act of 1986 & of 40 CFR 372. This information must be  
included in all MSDSs that are copied and distributed for this material.

### SARA TITLE III INGREDIENTS

|               | CAS#      | EINECS#   | WT%   | (REG.SECTION)      | RQ(LBS) |
|---------------|-----------|-----------|-------|--------------------|---------|
| *Xylenes      | 1330-20-7 | 215-535-7 | 75-85 | (311,312,313,RCRA) | 100     |
| *Ethylbenzene | 100-41-4  | 202-849-4 | 15-25 | (311,312,313,RCRA) | 1000    |





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#### SECTION 15. REGULATORY INFORMATION (CONTINUED)

- > 125 LB / 56 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF XYLENES. Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

##### STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: This product contains the following chemical known to the State of California to cause cancer: Ethylbenzene

##### INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL, NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

##### CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

B2: Flammable Liquid.

D2A: Contains a substance known to cause serious chronic toxicity or death. Ethylbenzene

D2B: Irritating to eyes, respiratory system, and skin.

#### SECTION 16. OTHER INFORMATION

##### HAZARD RATINGS:

HEALTH (NFPA): 2, HEALTH (HMIS): 2, FLAMMABILITY: 3, REACTIVITY: 0  
(Personal Protection Rating to be supplied by user based on use conditions.)  
This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

##### EMPLOYEE TRAINING

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

#### NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Unless updated, the Safety Data Sheet is valid until 06/06/2014.

COMPANY IDENTITY: PACKAGING SERVICE CO., INC.  
PRODUCT IDENTITY: CROWN PAINT THINNER  
NEW MSDS DATE: 10/18/2007

DA  
PA

#### MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z40 using the International Chemical Safety Cards of the Global Harmonizing System. THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD). IMPORTANT: Read this MSDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

#### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: CROWN PAINT THINNER  
COMPANY IDENTITY: PACKAGING SERVICE CO., INC.  
COMPANY ADDRESS: 1904 MYKAWA ROAD  
COMPANY CITY: PEARLAND, TX 77581  
COMPANY PHONE: 1-281-485-1458  
CHEMTREC PHONE: 1-800-424-9300

#### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 95-100% MEDIUM ALIPHATIC SOLVENT NAPHTHA (8052-41-3),  
0 - 5% 1,2,4-TRIMETHYLBENZENE (95-63-6) [265-198-5]  
Number in parentheses is CAS #, number in brackets is European EC #.  
This product has a mixture of n- and iso- paraffins, aromatic hydrocarbons & naphthenes. Depending on the raw material & production processes, the composition & physical properties of this solvent can vary considerably. The contents of benzene is much less than 0.1% by volume.

CRPT01

#### SECTION 3. HAZARDS IDENTIFICATION

EXPOSURE PREVENTION: PREVENT DISPERSION OF MISTS OR DUST!

##### RISK STATEMENTS:

R36/37/38 Irritating to eyes, respiratory system and skin.  
R20/65 Harmful by inhalation, may cause lung damage if swallowed.  
R10a Combustible (North America). Flammable (elsewhere).

##### SAFETY STATEMENTS:

S2 Keep out of the reach of children.  
S23 Do not breathe gas, fumes, vapor, or spray.  
S24 Avoid contact with skin.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

#### SECTION 4. FIRST AID MEASURES

##### EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

##### SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

##### INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel

# CRYSTAL CLEAR 550

## Material Safety Data Sheet

6014

MATERIAL SAFETY DATA SHEET  
OSHA FORM 174

PRODUCT NAME: CRYSTAL CLEAR 550  
PRODUCT CODE: 6014  
HMIS CODES: H - 2 F - 0 R - 1 P - G  
(HEALTH - FIRE - REACTIVITY - PERSONAL PROTECTION)  
HMIS RATING: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

### SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: WINSOL LABORATORIES, INC.  
ADDRESS: 1417 NW 51ST, SEATTLE, WA., 98107  
EMERGENCY PHONE: 206/782-5500  
DATE PREPARED: 01-01-98 NAME OF PREPARER: WINSOL LABORATORIES, INC.  
REVISED: 01-01-12

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| HAZARDOUS<br>COMPONENTS | CAS #     | OSHA<br>PEL | ACGIH<br>TLV | WEIGHT<br>% |
|-------------------------|-----------|-------------|--------------|-------------|
| HYDROCHLORIC ACID       | 7647-01-0 | 5PPM        | NA           | <3          |
| HYDROFLUORIC ACID       | 7664-39-3 | 3PPM        | 3PPM         | <3          |

NOTE: BASED ON THE RESULTS OF PRODUCT TESTING, CC-550 WOULD NOT FALL WITHIN THE TOXIC OR CORROSIVE HAZARD CLASSIFICATIONS OF DOT. THIS PRODUCT IS NOT CONSIDERED TOXIC OR CORROSIVE UNDER THE DOT STANDARDS FOR SHIPPING.

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 2120 F @760.00 MM HG SPECIFIC GRAVITY (H2O=1): 1.1  
VAPOR DENSITY: 10-30 MM HG @70 F EVAPORATION RATE: SLOWER THAN ETHER  
V.O.C.: N.A.  
SOLUBILITY IN WATER: 100%  
APPEARANCE AND ODOR: CLEAR AND SLIGHTLY ACIDIC

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

WINSOL CRYSTAL CLEAR 550 IS NON-FLAMMABLE.

FLASH POINT: N.A.

FLAMMABLE LIMITS IN AIR BY VOLUME- UPPER: N.A. LOWER: N.A.

EXTINGUISHING MEDIA: WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES: WATER MAY BE USED TO KEEP THE FIRE EXPOSED CONTAINERS COOL UNTIL THE FIRE IS OUT. SELF CONTAINED BREATHING APPARATUS WITH A FULL FACE-PIECE OPERATED IN PRESSURE- DEMAND OR OTHER POSITIVE

PRESSURE MODE AND FULL BODY PROTECTIVE CLOTHING.

UNUSUAL FIRE AND EXPLOSION HAZARDS: CONCENTRATED ACIDS REACT WITH MOST METALS TO RELEASE HYDROGEN GAS WHICH, UNDER SOME CONDITIONS, CAN FORM EXPLOSIVE MIXTURES WITH AIR.

#### SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: NOT SUITABLE ON GLASS WITH CLASS TWO CORROSION, OR HOT SURFACES.

INCOMPATIBILITY (MATERIALS TO AVOID): AVOID CONTACT WITH STRONG ALKALIES, ALKALI METALS AND ORGANIC MATERIALS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: MAY FORM TOXIC MATERIALS, HYDROGEN CHLORIDE, ACID FUMES, ETC.

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

#### SECTION VI - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

SKIN - IMMEDIATELY FLUSH WITH LARGE QUANTITIES OF COOL WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES UNTIL ALL ACID IS REMOVED, PAYING PARTICULAR ATTENTION TO SKIN UNDER NAILS. GET MEDICAL ATTENTION. FOLLOW BY IMMERSING AFFECTED PART IN ICE-COLD SATURATED SOLUTION OF MAGNESIUM SULFATE (EPSOM SALT). WASH CLOTHING BEFORE REUSE. DISCARD CONTAMINATED SHOES.

EYES - IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET IMMEDIATE MEDICAL ATTENTION. IF PHYSICIAN IS NOT IMMEDIATELY AVAILABLE, CONTINUE FLUSHING WITH WATER. DO NOT USE CHEMICAL ANTIDOTE.

#### SECTION VI - HEALTH HAZARD DATA CONT.

INGESTION - DO NOT INDUCE VOMITING. VOMITING WILL CAUSE FURTHER DAMAGE TO THE THROAT. DILUTE BY GIVING LARGE QUANTITIES OF WATER. IMMEDIATELY FOLLOW WITH MINERAL OIL OR MILK OF MAGNESIA. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

INHALATION - IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION AND GET MEDICAL ATTENTION.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: MIST MAY CAUSE DAMAGE TO NASAL AND RESPIRATORY PASSAGES.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

EYE - MAY CAUSE SEVERE DAMAGE AND EVEN BLINDNESS VERY RAPIDLY.

SKIN - BOTH THE LIQUID AND VAPOR MAY CAUSE SEVERE BURNS WHICH MAY NOT BE IMMEDIATELY PAINFUL OR VISIBLE.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: BOTH THE LIQUID AND VAPOR CAN CAUSE BURNS WHICH MAY NOT BE IMMEDIATELY PAINFUL OR VISIBLE.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: RESULTS IN SEVERE DAMAGE TO MUCOUS MEMBRANES AND DEEP TISSUES. CAN RESULT IN DEATH ON PENETRATION TO VITAL AREAS.

HEALTH HAZARDS (ACUTE AND CHRONIC): N.A.

CARCINOGENICITY: NON-CARCINOGENIC

NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: BURNS AND CUTS

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: GET PROTECTIVE EQUIPMENT. CONTAIN SPILL AND PUMP INTO MARKED CONTAINERS FOR RECLAMATION OR DISPOSAL. FOR SMALL SPILLS, NEUTRALIZE WITH SODIUM BICARBONATE, SODA ASH OR DILUTE CAUSTIC SODA SOLUTION AND FLUSH TO A SEWER SYSTEM IN ACCORDANCE WITH REGULATORY PERMIT REQUIREMENTS.

IF POSSIBLE, CLEAN UP SPILL AREA ON A DRY BASIS AND THEN FLUSH WITH PLENTY OF WATER.

WASTE DISPOSAL METHOD: DISPOSE OF SPILLED OR WASTE PRODUCT, AND OTHER CONTAMINATED MATERIALS IN LICENSED LANDFILL OR TREATMENT FACILITY IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE IN COOL AREA AWAY FROM HEAT AND OXIDIZING AGENTS.

OTHER PRECAUTIONS: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID, ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

## SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS.

VENTILATION: PROVIDE GENERAL OR MECHANICAL VENTILATION OR LOCAL EXHAUST TO KEEP VAPOR CONCENTRATIONS BELOW TLV OF MATERIALS IN SECTION II AND LEL IN SECTION IV.

PROTECTIVE GLOVES: USE IMPERMEABLE GLOVES TO PREVENT PROLONGED SKIN CONTACT, SUCH AS RUBBER OR NEOPRENE.

EYE PROTECTION: USE SAFETY EYE WEAR DESIGNED TO PROTECT EYES AGAINST LIQUID SPLASH AND MISTS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: USE PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT. USE HEAD CAPS, RUBBER BOOTS AND OVERALLS WHEN NECESSARY.

WORK/HYGIENIC PRACTICES: EYE WASHES AND SAFETY SHOWERS IN THE WORK PLACE ARE RECOMMENDED. WASH HANDS AFTER USING. MONITOR EXPOSURE LEVELS.

## SECTION IX - OTHER REGULATORY INFORMATION

EMERGENCY RESPONSE NUMBER FOR SHIPPING ONLY: NOT REQUIRED

D.O.T. PROPER SHIPPING NAME: CLEANER, NO SPECIAL HAZARD

## DOT REGULATORY GUIDELINE TEST RESULTS:

DOT SKIN CORROSION: NO SIGN OF DERMAL CORROSION WAS NOTED AT ANY OF THE TEST SITES. BASED ON THESE RESULTS, THE TEST MATERIAL (CRYSTAL CLEAR 550) IS CONSIDERED NON-CORROSIVE TO THE SKIN WHEN APPLIED AS RECEIVED.

DOT ACUTE DERMAL TOXICITY: THE SINGLE DOSE ACUTE DERMAL LD-50 OF CRYSTAL CLEAR 550 IS GREATER THAN 1000 MG/KG OF BODYWEIGHT. A LIQUID WITH A ACUTE DERMAL LD-50 GREATER THAN 1000 MG/KG IS NOT CLASSIFIED AS A "POISONOUS MATERIAL" UNDER DOT 173.132 CLASS 6, DIVISION 6.1. BASED ON THE RESULTS OF THIS STUDY, CRYSTAL CLEAR 550, WOULD NOT FALL WITHIN THE POISONOUS CATEGORY UNDER DOT REGULATORY GUIDELINES.

## SECTION IX - OTHER REGULATORY INFORMATION CONTINUED

## DOT REGULATORY GUIDELINE TEST RESULTS CONTINUED:

DOT ACUTE ORAL TOXICITY: THE SINGLE DOSE ACUTE ORAL LD-50 OF CRYSTAL CLEAR 550 IS GREATER THAN 500 MG/KG OF BODYWEIGHT WHEN ADMINISTERED AS RECEIVED. A LIQUID WITH AN ACUTE ORAL LD-50 GREATER THAN 500 MG/KG IS NOT CLASSIFIED AS A "POISONOUS MATERIAL" UNDER DOT 173.132 CLASS 6, DIVISION 6.1. BASED ON THE RESULTS OF THIS STUDY, CRYSTAL CLEAR 550 WOULD NOT FALL UNDER DOT REGULATORY GUIDELINES WITHIN THE POISONOUS CATEGORY.

DOT ACUTE INHALATION TOXICITY: THE ACUTE INHALATION LC-50 OF CRYSTAL CLEAR 550 IS GREATER THAN 11.89 MG/L (NORMAL) WHEN AEROSOLIZED AS RECEIVED. A MATERIAL WITH AN ACUTE INHALATION LC-50 GREATER THAN 10 MG/L IS NOT CLASSIFIED AS "POISONOUS MATERIAL" UNDER DOT 173.132 CLASS 6, DIVISION 6.1. BASED ON THE RESULTS OF THIS STUDY, CRYSTAL CLEAR 550 WOULD NOT FALL WITHIN THE POISONOUS CATEGORY UNDER DOT REGULATORY GUIDELINES.

## SARA TITLE III / SECTION 313 SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

| CAS: #    | CHEMICAL NAME     | PERCENT BY WEIGHT |
|-----------|-------------------|-------------------|
| 7647-01-0 | HYDROCHLORIC ACID | <3                |
| 7664-39-3 | HYDROFLUORIC ACID | <3                |

## SECTION X - DISCLAIMER

NOTICE: Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, WINSOL LABORATORIES, INC. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to the suitability for their purposes prior to use. In no event will WINSOL LABORATORIES, INC. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

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#### REVISIONS

01-01-12 - UPDATE

[home](#)



Conforms to OSHA HazCom 2012 & CPR Standards

## SAFETY DATA SHEET

### Section 1: IDENTIFICATION

#### 1.1 PRODUCT IDENTIFIER

**Product Name:** SimpleGrout Premixed Grout  
**Product Code:** F2120

#### 1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

**Use:** Grout.

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Name/Address:** Custom Building Products  
13001 Seal Beach Blvd  
Seal Beach, CA  
90740

**Telephone Number:** (562) 598-8808

#### 1.4 EMERGENCY TELEPHONE NUMBER

**Emergency Telephone Number:** INFOTRAC 1-800-535-5053 (US and Canada)  
INTERNATIONAL + 1-352-323-3500

### Section 2: HAZARD(S) IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

##### Hazard class

Carcinogenicity 1A  
Specific target organ toxicity - Repeated Exposure 1

#### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

**Hazard Pictogram:**



**Signal Word:** Danger

**Hazard Statement:** May cause cancer. Causes damage to lungs through prolonged or repeated exposure.

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe fumes/vapors. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

**Response:** If exposed or concerned: Get medical advice/attention.

**Storage:** Store locked up.

**Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.





## SAFETY DATA SHEET

### 2.3 ADDITIONAL INFORMATION

Hazards not otherwise classified: Not applicable.

25 % of the mixture consists of ingredient(s) of unknown acute toxicity.

#### WHMIS Classification(s):

- Class D2A - Carcinogenicity
- Class D2A - Teratogenicity and embryotoxicity
- Class D2A - Chronic Toxic Effects
- Class D2B - Skin/Eye Irritant

#### WHMIS Hazard Symbols:



WHMIS Signal Word: CAUTION

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 MIXTURES

| Ingredient                        | CAS No     | Wt. %     |
|-----------------------------------|------------|-----------|
| Silica, crystalline, quartz       | 14808-60-7 | 60 - 100  |
| Diethylene glycol monobutyl ether | 112-34-5   | 0.5 - 1.5 |
| Ethylene glycol                   | 107-21-1   | 0.5 - 1.5 |
| Titanium dioxide                  | 13463-67-7 | 1 - 5     |

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

### Section 4: FIRST- AID MEASURES

#### 4.1 DESCRIPTION OF THE FIRST AID MEASURE

- Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Skin:** In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.



## SAFETY DATA SHEET

**Skin:** May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

**Inhalation:** May cause respiratory tract irritation. Causes damage to lungs through prolonged or repeated exposure.

**Ingestion:** May cause stomach distress, nausea or vomiting.

### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

**Note to Physicians:** Symptoms may not appear immediately.

**Specific Treatments:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

---

## Section 5: FIRE-FIGHTING MEASURES

---

### 5.1 FLAMMABILITY

**Flammability:** Not flammable by WHMIS/OSHA criteria.

### 5.2 EXTINGUISHING MEDIA

**Suitable Extinguishing Media:** Treat for surrounding material.

**Unsuitable Extinguishing Media:** Not available.

### 5.3 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

**Products of Combustion:** May include, and are not limited to: oxides of carbon.

**Explosion Data:**

**Sensitivity to Mechanical Impact:** Not available.

**Sensitivity to Static Discharge:** Not available.

### 5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

---

## Section 6: ACCIDENTAL RELEASE MEASURES

---

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Scoop up material and place in a disposal container.

---

## Section 7: HANDLING AND STORAGE

---

### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Avoid contact with skin and eyes. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Do not breathe fumes/vapors. (See section 8)



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**General Hygiene Advice:** Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage:** Keep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place. (See section 10)

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

#### Exposure Guidelines

| Occupational Exposure Limits      |  |  |
|-----------------------------------|--|--|
| Ingredient                        | OSHA-PEL   | ACGIH-TLV                              |
| Silica, crystalline, quartz       | ((10 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> +2) (resp))<br>((30 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> +2) (total))<br>((250)/(%SiO <sub>2</sub> +5) mppcf (resp)) | 0.025 mg/m <sup>3</sup>                |
| Diethylene glycol monobutyl ether | Not available.   | 10 ppm (inhalable fraction and vapour) |
| Ethylene glycol                   | 50 ppm   | 50 ppm                                 |
| Titanium dioxide                  | 15 mg/m <sup>3</sup> (total dust)  | 10 mg/m <sup>3</sup>                   |

### 8.2 EXPOSURE CONTROLS

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### 8.3 INDIVIDUAL PROTECTIVE MEASURES

#### Personal Protective Equipment:

**Eye/Face Protection:** Safety glasses or goggles are recommended when using product.

#### Skin Protection:

**Hand Protection:** Wear chemical-resistant gloves.

**Body Protection:** Wear suitable protective clothing, including appropriate boots, boot covers, overshoes, etc., as may be appropriate.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**General Health and Safety Measures:** Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Wash contaminated clothing before reusing.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Paste-like compound.

**Color:** Various.

**Odor:** Mildly acrylic.

**Odor Threshold:** Not available.



## SAFETY DATA SHEET

|   |                            |
|---|----------------------------|
| <b>Physical State:</b>                          | Liquid.                    |
| <b>pH:</b>                                      | 8.5-9.0                    |
| <b>Melting Point/Freezing Point:</b>            | ~ 0°C (~ 32°F)             |
| <b>Initial Boiling Point and Boiling Range:</b> | Not available.             |
| <b>Flash Point:</b>                             | >115°C (>239°F)            |
| <b>Evaporation Rate:</b>                        | Not available.             |
| <b>Flammability:</b>                            | Not flammable.             |
| <b>Lower Flammability/Explosive Limit:</b>      | Not available.             |
| <b>Upper Flammability/Explosive Limit:</b>      | Not available.             |
| <b>Vapor Pressure:</b>                          | Not available.             |
| <b>Vapor Density:</b>                           | Not available.             |
| <b>Relative Density/Specific Gravity:</b>       | 15.0 – 16.5 lbs/gal        |
| <b>Solubility:</b>                              | Miscible.                  |
| <b>Partition coefficient: n-octanol/water:</b>  | Not available.             |
| <b>Auto-ignition Temperature:</b>               | Not available.             |
| <b>Decomposition Temperature:</b>               | Not available.             |
| <b>Viscosity:</b>                               | 450K – 650K (E@5rpm) (cps) |
| <b>Oxidizing Properties:</b>                    | Not available.             |
| <b>Explosive Properties:</b>                    | Not available.             |
| <b>VOC content, g/L:</b>                        | 41 g/L (0.1% - CARB)       |

### Section 10: STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

No dangerous reaction known under conditions of normal use.

#### 10.2 CHEMICAL STABILITY

Stable under normal storage conditions.

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

#### 10.4 CONDITIONS TO AVOID

Heat. Incompatible materials.

#### 10.5 INCOMPATIBLE MATERIALS

None known.

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon.



## SAFETY DATA SHEET

### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

**Symptoms related to physical/chemical/toxicological characteristics:**

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

**Skin:** May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

**Ingestion:** May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation. Causes damage to lungs through prolonged or repeated exposure.

**Acute Toxicity:**

| Ingredient                        | LC50                          | LD50   |
|-----------------------------------|-------------------------------|--|
| Silica, crystalline, quartz       | Not available.                | Oral 120 g/kg, rat (TD <sub>10</sub> )               |
| Diethylene glycol monobutyl ether | Not available.                | Oral 3384 mg/kg, rat;<br>Dermal 2700 mg/kg, rabbit   |
| Ethylene glycol                   | Inhalation > 2.5 mg/L 6h, rat | Oral 4000 mg/kg, rat;<br>Dermal 9530 µL/kg, rabbit   |
| Titanium dioxide                  | Not available.                | Oral >10000 mg/kg, rat<br>Dermal >10000mg/kg, rabbit |

**Calculated overall Chemical Acute Toxicity Values**

| LC50 (inhalation) | LD50 (oral)      | LD50 (dermal)       |
|-------------------|------------------|---------------------|
| >20 mg/L 4h, rat  | >2000 mg/kg, rat | >2000 mg/kg, rabbit |

| Ingredient                        | Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)* |
|-----------------------------------|---|
| Silica, crystalline, quartz       | G-A2, I-1, N-1, O, CP65   |
| Diethylene glycol monobutyl ether | Not listed.   |
| Ethylene glycol                   | G-A4  |
| Titanium dioxide                  | G-A4, I-2B, O, CP65   |

#### 11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

**Skin Corrosion/Irritation:** May cause skin irritation.

**Serious Eye Damage/Irritation:** May cause eye irritation.

**Respiratory Sensitization:** Based on available data, the classification criteria are not met.

**Skin Sensitization:** Based on available data, the classification criteria are not met.

**STOT-Single Exposure:** Based on available data, the classification criteria are not met.

**Chronic Health Effects:**

**Carcinogenicity:** May cause cancer.

**Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met.



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### Reproductive Toxicity:

**Developmental:** Based on available data, the classification criteria are not met.

**Teratogenicity:** Hazardous by WHMIS criteria.

**Embryotoxicity:** Hazardous by WHMIS criteria.

**Fertility:** Based on available data, the classification criteria are not met.

**STOT-Repeated Exposure:** Causes damage to lungs through prolonged or repeated exposure.

**Aspiration Hazard:** Based on available data, the classification criteria are not met.

**Toxicologically Synergistic Materials:** Not available.

**Other Information:** Not available.

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### Section 12: ECOLOGICAL INFORMATION

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#### 12.1 ECOTOXICITY

**Acute/Chronic Toxicity:** May cause long-term adverse effects in the aquatic environment.

#### 12.2 PERSISTENCE AND DEGRADABILITY

Not available.

#### 12.3 BIOACCUMULATIVE POTENTIAL

**Bioaccumulation:** Not available.

#### 12.4 MOBILITY IN SOIL

Not available.

#### 12.5 OTHER ADVERSE EFFECTS

Not available.

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### Section 13: DISPOSAL CONSIDERATIONS

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#### 13.1 WASTE TREATMENT METHODS

**Disposal Method:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

**Other disposal recommendations:** Not available.

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### Section 14: TRANSPORT INFORMATION

---

#### 14.1 UN NUMBER

##### DOT

Not regulated.

##### TDG

Not regulated.

#### 14.2 UN PROPER SHIPPING NAME

##### DOT

Not applicable.

##### TDG

Not applicable.

**SAFETY DATA SHEET****14.3 TRANSPORT HAZARD CLASS (ES)****DOT**

Not applicable.

**TDG**

Not applicable.

**14.4 PACKING GROUP****DOT**

Not applicable.

**TDG**

Not applicable.

**14.5 ENVIRONMENTAL HAZARDS**

Not available.

**14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE**

Not available.

**14.7 SPECIAL PRECAUTIONS FOR USER**

Do not handle until all safety precautions have been read and understood.

**Section 15: REGULATORY INFORMATION****15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL**

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**US:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

| SARA Title III                    |                                 |                              |                     |                |
|-----------------------------------|---------------------------------|------------------------------|---------------------|----------------|
| Ingredient                        | Section 302<br>(EHS) TPQ (lbs.) | Section 304<br>EHS RQ (lbs.) | CERCLA<br>RQ (lbs.) | Section<br>313 |
| Silica, crystalline, quartz       | Not listed.                     | Not listed.                  | Not listed.         | Not listed.    |
| Diethylene glycol monobutyl ether | Not listed.                     | Not listed.                  | Not listed.         | Not listed.    |
| Ethylene glycol                   | Not listed.                     | Not listed.                  | 5,000               | 313            |
| Titanium dioxide                  | Not listed.                     | Not listed.                  | Not listed.         | Not listed.    |

**State Regulations****California Proposition 65:**

This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. (Silica, crystalline; Titanium dioxide; 1,4-Dioxane; Ethylene oxide; Ethyl acrylate; Methanol; Acetaldehyde)

**Global Inventories:**

| Ingredient                        | Canada<br>DSL/NDSL | USA<br>TSCA |
|-----------------------------------|--------------------|-------------|
| Silica, crystalline, quartz       | DSL                | Yes.        |
| Diethylene glycol monobutyl ether | DSL                | Yes.        |
| Ethylene glycol                   | DSL                | Yes.        |
| Titanium dioxide                  | DSL                | Yes.        |



**SAFETY DATA SHEET**

| NFPA National Fire Protection Association: |   |
|--|---|
| Health:                                    | 1 |
| Fire:                                      | 0 |
| Reactivity:                                | 0 |

| HMIS-Hazardous Materials Identification System |    |
|--|----|
| Health:  | 1* |
| Fire:  | 0  |
| Physical Hazard:                               | 0  |

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

**SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:**

CP65 California Proposition 65

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.  
A2 - Suspected human carcinogen.  
A3 - Animal carcinogen.  
A4 - Not classifiable as a human carcinogen.  
A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.  
2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.  
2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.  
3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.  
4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.  
2 - Reasonably anticipated to be carcinogens.

**Section 16: OTHER INFORMATION**

Date of Preparation: September 9, 2013

Version: 1.0

Revision Date: September 9, 2013

**Disclaimer:** We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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Prepared for: Custom Building Products

**End of Safety Data Sheet**



# MATERIAL SAFETY DATA SHEET

Tile Lab Surfacegard Penetrating Sealer

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Tile Lab Surfacegard Penetrating Sealer  
**Product Use:** Sealer.  
**Manufacturer/Supplier:** Custom Building Products  
13001 Seal Beach Blvd  
Seal Beach, CA 90740  
**Phone Number:** (562) 598-8808  
**Emergency Phone:** INFOTRAC 1-800-535-5053 (US and Canada)  
INTERNATIONAL + 1-352-323-3500  
**Date of Preparation:** December 31, 2008 **Revision Date:** September 11, 2012

## Section 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### CAUTION

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

**Potential Health Effects:** See Section 11 for more information.

**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

**Eye:** May cause eye irritation.  
**Skin:** May cause skin irritation.  
**Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.  
**Inhalation:** May cause respiratory tract irritation.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, drying, and cracking of the skin.

**Medical Conditions Aggravated By Exposure:** Asthma. Allergies.

**Target Organs:** Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential Environmental Effects:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient                        | CAS #    | Wt. % |
|-----------------------------------|----------|-------|
| Diethylene glycol monobutyl ether | 112-34-5 | 1 – 5 |

## Section 4: FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses, if worn.



# MATERIAL SAFETY DATA SHEET

Tile Lab Surfacegard Penetrating Sealer

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

**Note to Physicians:** Symptoms may not appear immediately.

## Section 5: FIRE FIGHTING MEASURES

**Flammability:** Not flammable by WHMIS/OSHA criteria.

**Means of Extinction:**

**Suitable Extinguishing Media:** Treat for surrounding material.

**Unsuitable Extinguishing Media:** Not available.

**Products of Combustion:** May include, and are not limited to: oxides of carbon and hydrogen fluoride.

**Explosion Data:**

**Sensitivity to Mechanical Impact:** Not available.

**Sensitivity to Static Discharge:** Not available.

**Protection of Firefighters:** Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Clean-Up:** Soak into absorbent material. Spills of this material are a slipping hazard. Thoroughly wash the area with water after a spill or leak. Allow gas to dissipate harmlessly into the atmosphere.

**Other Information:** Not available.

## Section 7: HANDLING AND STORAGE

**Handling:**

Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

**Storage:**

Keep out of the reach of children. Keep container tightly closed. Store in a cool place. Keep away from food, drink and animal feedingstuffs.



# MATERIAL SAFETY DATA SHEET

Tile Lab Surfacegard Penetrating Sealer

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

| Ingredient                        | Exposure Limits |                |
|-----------------------------------|-----------------|----------------|
|                                   | OSHA-PEL        | ACGIH-TLV      |
| Diethylene glycol monobutyl ether | Not available.  | Not available. |

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### Personal Protective Equipment:

**Eye/Face Protection:** Wear eye/face protection.

**Hand Protection:** Wear suitable gloves.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

|   |                           |
|---|---------------------------|
| <b>Appearance:</b>                            | Clear to slightly cloudy. |
| <b>Color:</b>                                 | Colorless.                |
| <b>Odor:</b>                                  | Low odor.                 |
| <b>Odor Threshold:</b>                        | Not available.            |
| <b>Physical State:</b>                        | Liquid.                   |
| <b>pH:</b>                                    | 7.0-8.0                   |
| <b>Viscosity:</b>                             | Water thin.               |
| <b>Freezing Point:</b>                        | ~ 0 °C (~ 32 °F).         |
| <b>Boiling Point:</b>                         | ~ 100°C (~ 212°F).        |
| <b>Flash Point:</b>                           | Not available.            |
| <b>Evaporation Rate:</b>                      | Not available.            |
| <b>Lower Flammability Limit:</b>              | Not available.            |
| <b>Upper Flammability Limit:</b>              | Not available.            |
| <b>Vapor Pressure:</b>                        | Not available.            |
| <b>Vapor Density:</b>                         | Not available.            |
| <b>Relative Density:</b>                      | ~ 1 g/mL.                 |
| <b>Solubility in Water:</b>                   | Miscible.                 |
| <b>Coefficient of Water/Oil Distribution:</b> | Not available.            |
| <b>Auto-ignition Temperature:</b>             | Not available.            |
| <b>Percent Volatile, wt. %:</b>               | ~ 95%                     |
| <b>VOC content:</b>                           | 36 g/L.                   |



# MATERIAL SAFETY DATA SHEET

Tile Lab Surfacegard Penetrating Sealer

## Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions.

**Conditions of Reactivity:** Heat. Incompatible materials.

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon and hydrogen fluoride.

**Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

## Section 11: TOXICOLOGY INFORMATION

### EFFECTS OF ACUTE EXPOSURE

#### Component Analysis

| Ingredient                        | LD <sub>50</sub> (oral)  | LC <sub>50</sub> |
|-----------------------------------|--|------------------|
| Diethylene glycol monobutyl ether | 3384 mg/kg, rat  | Not available.   |
| <b>Eye:</b>                       | May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |                  |
| <b>Skin:</b>                      | May cause skin irritation. Symptoms may include redness, drying, and cracking of the skin.   |                  |
| <b>Ingestion:</b>                 | May be harmful if swallowed. May cause stomach distress, nausea or vomiting.   |                  |
| <b>Inhalation:</b>                | May cause respiratory tract irritation.  |                  |

### EFFECTS OF CHRONIC EXPOSURE

**Target Organs:** Not available.

**Chronic Effects:** Not hazardous by WHMIS/OSHA criteria.

**Carcinogenicity:** Not hazardous by WHMIS/OSHA criteria.

| Ingredient                        | Chemical Listed as Carcinogen or Potential Carcinogen * |
|-----------------------------------|---|
| Diethylene glycol monobutyl ether | Not listed.   |

\* See Section 15 for more information.

**Mutagenicity:** Not hazardous by WHMIS/OSHA criteria.

**Reproductive Effects:** Not hazardous by WHMIS/OSHA criteria.

#### Developmental Effects:

**Teratogenicity:** Not hazardous by WHMIS/OSHA criteria.

**Embryotoxicity:** Not hazardous by WHMIS/OSHA criteria.

**Respiratory Sensitization:** Not hazardous by WHMIS/OSHA criteria.

**Skin Sensitization:** Not hazardous by WHMIS/OSHA criteria.

**Toxicologically Synergistic Materials:** Not available.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** May cause long-term adverse effects in the aquatic environment.

**Persistence / Degradability:** Not available.



# MATERIAL SAFETY DATA SHEET

Tile Lab Surfacegard Penetrating Sealer

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Not available.

## Section 13: DISPOSAL CONSIDERATIONS

### Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

## Section 14: TRANSPORTATION INFORMATION

### DOT Ground Classification

Not regulated

### TDG Ground Classification

Not regulated

### IATA Classification

Not regulated

### IMDG Classification

Not regulated

## Section 15: REGULATORY INFORMATION

### Federal Regulations

**Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**US:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

### SARA Title III

| Ingredient                        | Section 302<br>(EHS) TPQ (lbs.) | Section 304<br>EHS RQ (lbs.) | CERCLA<br>RQ (lbs.) | Section<br>313 |
|-----------------------------------|---------------------------------|------------------------------|---------------------|----------------|
| Diethylene glycol monobutyl ether | Not listed.                     | Not listed.                  | Not listed.         | Not listed.    |

### State Regulations

#### California Proposition 65:

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

### Global Inventories

| Ingredient                        | Canada<br>DSL/NDSL | USA<br>TSCA |
|-----------------------------------|--------------------|-------------|
| Diethylene glycol monobutyl ether | DSL                | Yes.        |

All ingredients are on DSL/NDSL and TSCA inventories or are exempt from listing.

### HMIS - Hazardous Materials Identification System

Health - 1      Flammability - 0      Physical Hazard - 0      PPE - B

### NFPA - National Fire Protection Association:

Health - 1      Fire - 0      Reactivity - 0

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme



## MATERIAL SAFETY DATA SHEET

Tile Lab Surfacegard Penetrating Sealer

### WHMIS Classification(s):

Class D2B - Eye Irritant

### WHMIS Hazard Symbols:



### SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

**OSHA (O)** Occupational Safety and Health Administration.

**ACGIH (G)** American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

**IARC (I)** International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

**NTP (N)** National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

### Section 16: OTHER INFORMATION

#### Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

**Expiry Date:** September 11, 2015

**Version #:** 2.1

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